MANUFACTURERS' RECORD.

A WEEKLY SOUTHERN INDUSTRIAL, RAILROAD AND FINANCIAL NEWSPAPER.

Vol. XLI. No. 13.

BALTIMORE, APRIL 17, 1902.

\$4.00 A YEAR. SINGLE COPIES, 10 CENTS.

Manufacturers' Record.

BICHARD H. EDMONDS, President. THOMAS P. GRASTY, Vice-President.

CE: MANUFACTURERS' RECORD BUILDING
BALTIMORE.

Manufacturers' Record Publishing Co.

RICHARD H. EDMONDS. tor and General Manager.

> THOMAS P. GRASTY, General Staff Corresponde

Susscription, - - - \$4.00 a Year.
To Foreign Countries, - - 26s. 6d. a Year.

BALTIMORE, APRIL 17, 1902.

Next Tuesday is Maryland Day at the Charleston Exposition, and it is expected that not less than 1000 Marylanders, including Governor Smith and his staff, the Maryland commissioners and a number of invited guests of the commissioners, will visit the exposition. April 23 will be New York Day, and quite a party will accompany Governor Odell, Mayor Low and other State and city authorities on the trip, which will occupy nearly a week. Both Maryland and New York were among the foremost in supporting the plan for the exposition, and the visitors from these two States will undoubtedly be given a warm welcome at Charleston.

MILTON H. SMITH.

Whatever may be the final outcome of the rapid moves which are being made in the railroad situation of the South, it is to be hoped that there will be no change in the active management of the Louisville & Nashville. In the development of the South, and especially of the coal and iron interests of Alabama, Milton H. Smith of the Louisville & Nashville has been a power for good which can never be measured. Appreciating years ago the natural advantages of the South for industrial development, he has given the best years of his life to the advancement of this section, and in connection therewith has made the Louisville & Nashville one of the great railroad systems of America. If it should prove that new men and new capital are to become actively identified with the ownership of this system, they can have no better guide in carrying out their plans for the still further advancement of the road than Mr. Smith. The South cannot afford to lose him, and while it is not conceivable that any change in ownership should affect his management of this great property, it behooves the business interests of the South to see that this sec tion does not lose the power and work of Mr. Smith. For years he has rightly grasped the industrial potentialities of the South, and with consummate skill has so managed the Louisville & Nashville that, while increasing the pros perity of that corporation, he has marvelously aided the industrial advance ment of the South.

FOR PRACTICAL EDUCATION.

At the annual meeting of the Texas Cotton Manufacturers' Association last week at Dallas resolutions were adopted calling for a legislative appropriation sufficient to establish and operate a textile school. The adoption of these resolutions followed an address by President E. A. Du Bose, who called attention to the necessity, whenever a new cotton mill is organized in the State, for superintendents, overseers engineers, machinists and electricians, and the present custom of sending out side of the State for such labor. He insisted that the greatest cotton-growing State in the Union ought to provide the means for equipping and qualifying natives of the State for these lucrative positions, especially as the time is not far distant when the South will be manufacturing finer fabrics. campaign for practical education in the South widens. It is natural that it should have its inspiration in the textile But it should not stop industry. there. It should extend into all lines in which the rising generation of the South may learn to labor confidently.

THE APPALACHIAN RESERVE.

The bill for the establishment of a national forest reserve in the Southern Appalachians has been reported favorably in Congress. Nothing should be permitted to prevent its becoming an It authorizes the purchase of 4,000,000 acres of land in the mountain region extending from Southern Virginia and West Virginia to Northern Alabama and Georgia, touching South Carolina and Tennessee, and containing not only the greatest variety of timber in the country, but what is of equal importance, the head springs of more than a dozen important rivers emptying into the Atlantic ocean, the Gulf of Mexico and the Mississippi and Ohio rivers. The passage of the bill is of prime importance to secure conditions whereby the value of streams for transportation and irrigation, and as sources of industrial and commercial power, may be maintained, if not increased, and to give practical encouragement to the development of scientific forestry, the necessity for which is becoming every year more

HANDLING OR MAKING.

Figures representing the shipments of cases of shoes from Boston to eight Southern cities during the five weeks ended February 1 last are quoted as follows by the Atlanta Journal:

Atlanta														 							11.
Richmond.					 	 												٠			11.
Lynchburg									۰	۰											9,
New Orlea	II	18	١.											۰							8.
Nashville																					
Knoxville.																					4,
Memphis																					3,
Charleston																	۰		0	٥	2,

These figures are made the text for a bit of gratulation on the part of the Journal about the importance of Atlanta as a shoe market. There is another way, however, of looking at the figures, and that way leads to the ques-

why are these Southern cities. much nearer hides and tanbark, de pendent for their shoes upon Boston, a thousand miles and more away? Would not there be more substantial benefit in Atlanta shipping 11,953 cases of shoes made in Atlanta than in being the point of distribution for that number of

TEXAS GIVEN A SEND-OFF.

Just about one year ago representatives of the Merchants' Association and of the Chamber of Commerce of New York city started upon a trip to Texas The two associations had been active in the measures for the relief of Galveston after the hurricane of September, 1900, and later Governor Sayers, in express ing deep gratitude felt by Texans for New York's generosity, expressed the hope that more intimate and friendly relations might thereby be established and, as a means to that end, extended an invitation to the associations to visit Texas and to study conditions there. The subsequent trip covered 6198 miles. of which 2800 miles were within the State of Texas. Stops were made at thirty-seven places in the State, and the visitors were given every opportunity within the limited time at their disposal to make themselves familiar with every phase of Texan life of interest to the East. The results of the inquiry along eleven distinct lines have been embodied in a publication of the Mer chants' Association of New York, entitled "The Natural Resources and Economic Conditions of the State of Texas." This report deals with water supplies in rivers, in rainfall, in wells and through irrigation; with agricultural conditions, including general physical and climatic characteristics geology and soils; the staple farm and pastoral products; the mineral reources, especially oil, artesian waters, building stones, gold and silver, copper, coal and gypsum; the forest supplies and timber industry; health conditions, manufacturing possibilities, the labor supply, transportation and export facilities, banking and financial interests, and public educational institutions. with a concluding chapter upon the tendencies of Texas legislation.

This report is valuable not only for the mass of information contained in it and set forth in a style appealing directly to the investor and the home seeker, but for its practical suggestions. One of the most significant sug gestions appears in the statement that, with the exception of the reports of the State geological survey and the State railroad commission, the latter being among the most thorough, useful and intelligent published by any public authority in the United States, and the latter of great merit, but as yet covering a small part of the State, the subcommittees in their search for information were embarrassed by the exceeding meagerness of official data collated by the State, which the committee regards as almost blind to the great importance of public reports containing the way of savings banks for encour-

accurate and complete exhibits of the natural resources and industrial possi-bilities of Texas. The committee truly says that immigrants and outside capital, essential to well-balanced development, demand in advance reliable information about a State, and that the notable lack of such information about Texas has probably been prejudicial to that State, as indicated in its deficient labor supply and the distrustful attitude of outside capital based upon misconception and dense ignorance of actual conditions.

However, the subcommittees endeavred, through wide correspondence and with a hearty co-operation of residents in various parts of the State, particularly railroad officials, to fill the gaps reated in the paucity of official matter, and through these unofficial channels gathered numerous monographs published by associations, institutions and individuals, and a mass of unpublished facts furnished by Texas specialists. The conclusions are gratifying to every body who knows what Texas is and what Texas may be. The visitors found the climate and geologic conditions of Texas of greater range than can be found in any other State or group of States of equal area, are favorable to corresponding diversity of natural products and exceptional productivity in specific classes, and adds:

Texas is the only State where temperature numidity and soil are equally suited to the distinctively Southern crops in conjunction with all the grains, fruits and forage plants of the more Northern States, and likewise to the prolific breeding of all kinds of farm

It has no doubt that the fuel-oil industry in Texas is unrivaled; that it bids fair to effect economic changes in the various manufacturing industries, and of minerals in general it says:

Texas is a State of such magnificent dis ances—an empire within itself—that a proper investigation of its mineral resources roper investigation of its inherent resources rould require not a few days, but a few ears. It would require considerable hardi-ood to definitely state that any mineral is tacking. * * * In every section we found yast amount of matter indicating the ex-stence of various economic minerals, and in stence of various eco almost every section it seems ther exploration is warranted

The visitors found labor conditions in the State by no means as stable as could be desired, but took this hopeful

When these stable conditions as to the s of labor shall have been reached by the wouldion of a sufficiently large and properly killed artisan class, Texas will have a very mportant advantage over other sections in he relatively low cost of living, which inevitably results in correspondingly low prices of labor. It is an unshakable fact that because of climatic and physical reason the actual necessities of life cost less and will always cost less in the Southern than in the Northern States. When Southern manufacturing industries have at command an artisan class of persistent industry and highly-developed skill, they will have a dealing the southern than the state of the vitably results in correspondingly low prices antage in labor costs

But the supply of capital must advance with the supply of labor, and the subcommittee on banking suggests that Texas is far behind in the provision in aging thrift and economy and utilizing a great volume of home capital profit aldy, while the subcommittee of lumber says:

The natural resources of Texas as a lumb State are very hard to equal in this country, and the natural conditions seem to be very attractive for the investment of capital. But the great capital necessary to operate a large lumbering plant to the best advantage cannot easily be brought together except in the corporate form, and legislation hostile to corporations must necessarily tend ourage them from subjecting them selves to it.

The subcommittee then refers to the current belief that public sentiment in Texas regards the corporate form of capital as harmful. That subject is specially treated by another subcommittee, which, essaying a judicial role, inclines to the impression "that the legislature might be charged some time with being prejudiced; it had been urged that some were ignorant, but no man had asserted and sustained the statement that they were dishonest;" that the judges of the State were inclined to be rigidly honest and impartial in the administration of justice, and that the bar of the State are energetic, active men of pronounced individualism and of character, and it adds:

The corporation laws of the State of Texas reflect to a limited extent a prejudice, more former than present, against corporations. It may be suggested that the corporation laws lack some of the more modern provis for the modern business companies; they fall to provide for certain every-wants and needs of the business corpo-ms. But such matters are sure to be prrected at the hands of an intelligent legis soon as the State of Texas shall and practically experienced what y is certainly coming into its borders the movement and growth of the mod ern business company, and the tendency of siness and business men to transact their proper corporate, rather than in

These references to the publication of the Merchants' Association demonstrate both the practical value of its investigations and its suggestions based thereon, and the exceedingly friendly spirit toward Texas and the South prerailing in the great financial center of the country. Texas and the South should leave nothing undone to cultivate that spirit and to bring the suggestions to good effect.

THE LOSSES IN STRIKES.

Referring to cotton-mill strikes in the South, the Textile Manufacturers' Journal of New York says:

The Southern operative, no matter what is circumstances be, is a firm believer in his circumstances constitutional privileges, and regards him-self the equal under law and by birth to all others, and in his special environment this prerogatives.

in the main that statement is correct. but it is hardly being supported by developments in Augusta, Ga., according to dispatches from Fall River, Mass. At the session last week of the United Textile Workers of America at Fall River it was announced that 10,000 operatives were idle in the Augusta distriet, and were awaiting instructions from Secretary Hibbert of the national body. The report of the meeting con-

operatives at Dover, N. H., asking wl steps should be taken toward obtaining a cent, advance in wages, the secre vas instructed to inform the operatives that at the present time no strike in Dover would be sanctioned. As the operatives in Augusta, Ga., are now striking for the same advance, the national body does not care to deal with two strikes at one time. tives, however, have leave to strike on their own responsibility.

When one reads those statements the

wonder grows how any set of men in the South assertive of their prerogatives can be looking for inspiration as to their conduct in vital matters to any men or set of men in a distant part of the country whom they do not know. Perhaps if they knew them better the; would hesitate about accepting their advice or their assistance. Clear-thinking men would recognize the purpose in a refusal to sanction a strike at Dover. N. H., coincident with support given a strike at Augusta, Ga., upon the same basis, and while they are discovering why Northern mill-workers should encourage strikes in Southern mills, but discourage strikes in Northern mills. they might consider certain figures presented in the latest annual report of the commissioner of labor as to the losses incurred through strikes during the past twenty years, as follows:

The loss to employes in the establish In which strikes occurred for the period of twenty years was \$275,863,478. The loss to cuployes through lockouts for the same period was \$48,819,745, or a total loss to em-ployes by reason of these two classes of in-dustrial disturbances of \$306,683,223. The number of establishments involved in strikes during this period was 117,509, making an average loss of \$2194 to employes in each esaverage loss of \$2194 to employes in each tablishment in which strikes occurred. I number of persons thrown out of empl ment by reason of strikes was 6,105,694, mak ing an average loss of \$42 to each person in ing an average loss of \$42 to each person involved. The number of establishments involved in lockouts was \$933, making an average loss of \$4915 to employes in each establishment in which lockouts occurred, while the number of employes thrown out was 504. 307, making an average loss to each per involved of \$97. Combining the figures strikes and lockouts, it is seen that the w oss to employes, as above stated, was 683,223, and the number of establishments in volved 127,442, while 6,610,001 persons were thrown out of employment. These figures show an average wage loss of \$2406 to the employes in each establishment, and an aver age loss of \$46 to each person involved.

The assistance given to strikers during the twenty years, so far as ascertainable, was \$16,174,793; to those involved in lockouts, \$3,451,461, or a total of \$19,626,254. This sum represents but 6.40 per cent. of the total wage is incurred in strikes and lockouts, and is loss incurred in strikes and lockouts, and is probably too low. In addition to this sum, which includes only assistance from labor organizations, much assistance was furnished by outside sympathizers, the amount of which the department had no means of

ascertaining.

The loss to employers through strikes during the twenty years amounted to \$122,731, 121; their losses through lockouts amounted. to \$19,927,983, making a total loss to the estab firms involved in strike lockouts during this period of \$142,659,104, or an average loss of \$1119 to each firm or estab lishment involved.

A point not made in the report, but which would-be strikers of all kinds may well ponder, is that not only has loss to employers been less than the half the loss to employes through strikes, but that employers are better able than employes to stand the los

Cane and Cassava.

About 300 delegates from Georgia and Florida attended the cane and cassava convention at Brunswick, Ga., last Saturday. The convention was addressed by Secretary Wilson of the National Department of Agriculture, who has taken a deep interest in the development of cas sava culture, and who described the various lines upon which the department is working to aid the farmers of the coun-Dr. Wiley, chief chemist of the Agricultural Department; Mr. O. B. Stevens, commissioner of agriculture of Georgia, and Mr. Pope Brown, president of the Georgia Agricultural Society; Col. I. C. Wade of the Southern Railway. Prof. H. E. Stockbridge of the Florida experiment station, Col. Charles P. Goodyear, Mr. F. D. Aiken of Brunswick, Mr. W. L. Glessner of the Georgia Southern

CENSUS OFFICE ON THE PRESENT COTTON CROP

By COL. ALFRED B. SHEPPERSON.

(W.4tten for the Manufacturers' Record.)

lished what purported to be a preliminary report of the census office, indicating the yield of the present cotton crop as 9,614,-581 bales of 500 pounds gross

The figures are stated to be based upon reports received by the census office from the cotton ginners, and doubtless represent quantity ginned to April 1 and estimates by the ginners of the quantity to be ginned during the remaining five months of the season from April 1 to August 31. The report compares its figures for the present season with its bulletin September 28, 1901, which gave the yield of cotton for the season of 1900-1901 as being equivalent to 10,123,027 bales of pounds gross, thus indicating smaller yield this season than last by 508, 446 bales of 500 pounds gross

Without the slightest intention to discarage the efforts of the census office to give perfectly reliable and trustworthy information respecting all matters which it makes the subject of investigation, I think it may be quite safely assumed that at this time very few cotton merchants or spinners who have studied the matter ex pect the crop to be less than 10,000,000 bales, while the majority of those in close touch with the South look for a larger

As the average weight of bales since September 1 is 509 pounds gross, the cens office figures of yield for this season really equal only 9,444,579 bales of current weights.

According to the compilation of the New York Cotton Exchange, 9,485,296 bales of the present crop had come into sight April 11, so it is evident that considerably more cotton had actually been received to that date from the crop than the estimate of the census office for the entire yield of the season. Besides the cotton of this season's growth yet to be marketed, it is clear to well-informed men that about 150,000 bales of cotton which was grown last season, but not included in the commercial crop of 1900-1901, will be marketed and included in the present com mercial crop.

The census report, which looked very 'bullish" at first blush, was utterly without influence on the New York market, as the trade here saw quickly that more cotton than the entire yield indicated by the ensus office had already come into sight without taking into consideration the un doubted excess in the takings of the Southern mills since September 1 beyond the quantity estimated for this item the statement of cotton brought into sight.

It is possible that the census-office figures may really mean only the quantity of cotton ginned to April 1, but if so, it was unfortunate and very misleading to have compared them with the census estimate of the quantity ginned during the entire year ending August 31 last.

A visit to New Orleans, from which I have returned today, gave me the distinct impression that the consensus of the best opinion in that great market was for a crop of about 10,250,000 bales, while sentiment here leans to somewhat higher

Cotton Exchange Building

New York, April 15, 1902.

The Pig-Iron Market.

Matthew Addy & Co. of Cincinnati, in their weekly report, say

"In this market there is not a great deal doing on the firing line, so to speak, for the ammunition is exhausted. Except for & Florida Railway and others also spoke. a few odd lots of off iron now and then, ports the attainment of a very satisfac-

The newspapers of the 14th inst, pub- | there is no iron for quick shipment. This necessarily has made a quiet market. The whole interest in the market centers on the future and on the problem of getting iron already bought forward fast enough The railroads are doing better, but there still great room for improvement. Shipments, for example, that were made on the 20th of last month to points in the Middle West are still in transit. kind of thing is exasperating in the extreme, for there are many consumers who are suffering for iron who have half a dozen or more cars on the way. Half of our correspondence these days is made up of complaints from customers in regard to the slow time their iron is making, and isking that the railroads be pushed, However, there has been a decided better ment in this direction during the past thirty days, and by May it seems as if things should be in normal shape again, There is an unusually heavy demand for charcoal iron, as well as for car-wheel and malleable irons generally."

UNCHANGED AT BIRMINGHAM.

Recent Conditions in the Iron Market Maintained.

[Special Cor. Manufacturers' Record.] Birmingham, Ala., April 15.

There are still sporadic sales of prompt ron at emergency values. These values have only one guide, and that is, buyers' accessities. And in frequent cases the buyers fix by their bids the sales price of Even the price obtained here is ma terially lower than rules in other primary markets. At Pittsburg No. 2 foundry is quoted openly at \$21, with sales runnin up to \$21.75. The highest sale admitted here the past week for No. 2 foundry was at \$15.40. The freight to Pittsburg is \$4.15. So our No. 2 foundry at \$15,40 here is \$19.55 Pittsburg, as against, say, \$21, their quotations. This would naturally account for quite an inquiry to this market, which, under ordinary circumstances, we do not get. The larger interests yet maintain the attitude towards the market they adopted some time since They report quotations as unchanged on the basis of \$12 for No. 2 foundry. But the iron changing hands at these quotations is nominal. What little there is obtained at these quotations goes only to those whose credentials to consideration are above suspicion. The business placed is but a moiety of the demand, and the large interests are much more interested in efforts to satisfy matured and maturing deliveries than in seeking fresh buyers. Untoward circumstances have retarded deliveries, and all are more or less delinquent on them. As to what is called spot nd prompt iron the lesser lights have the market, and it is generally the case that the buyer tenders a bid for consideration of the seller. The market price now, as rule, is not fixed by the seller, but by the buyer. In this way sales were made of No. 2 foundry at \$15, and up to \$15.40. There were reports of sale at \$16, but the writer failed in his efforts of confirma tion. Some silver gray brought \$14.50, as also did some No. 3 foundry, while 500 tons of No. 1 foundry was sold at \$16 for delivery last half of this year. Some iron was sold on analysis, but the prices obtained are under lock and key. Nothing could be learned of any transactions in gray forge, and a quotation for that grade would be mere guesswork. The business concluded at the above quotations was very restricted.

At the steel mill the management re-

steel me The ship ma and March w mount, 1 east-iron 1 st hereto This distr nount. and all of by Birm unted what has The T ferro-pho products, seller of At leas rect ne which op The situa the prosp to be sa Iron Co. county, i increase ample w terests. enced b efforts t wages o per ton, allowed probable

April

ory efficie

MA Featur

outhw

hasins

They

border

miles

width.

half. o

induce t

to the r

rett co III of Geolog David Geolog most I The northe most i the F Elk basin lies i south ern h By re of its tage

> far main is th Sava the Cast coun basi basi

> > of (mai mer Rai

tory efficiency, and with it increased pro-CROP duction. There is a place for every ton of steel made.

1902.

nt. This

ket. The

nters on

f getting

enough.

ut there

vement.

re made

ts in the

the ex

ers who

half a

Half of

nade up

gard to

ng, and

pushed.

better.

e past

s as if

again, and for

eel and

HAM.

arket

rd.] l 15,

rompt

uyers' es the

ice of is ma-

Iry is

nning

nitted

was

rg is

15,40

Dat-

nter-

ards

But

10

tion

the

sted

ning

ded

lin-

har

value

The shipments of pig-iron from Alahama and Tennessee for the month of March were 147,224 tons. Of this amount, the Birmingham district furnished 77,489 tons. The shipments of east-iron pipe were 16,184 tons, the largest heretofore recorded for any one month. This district furnished S194 tons of this mount. Of steel, 8383 tons were shipped. and all of this was, of course, furnished by Birmingham. Exports of pig-iron amounted to 180 tons, a faint reminder of what has been.

The Tennessee Company has added ferro-phosphorus to its list of furnace products, and will enter the market as seller of this commodity.

At least three different interests will erect new furnaces in this district on which operations will commence this year. The situation in coal continues good, and the prospects for its keeping good appear to be satisfactory. The Corona Coal & Iron Co., whose holdings are in Walker county, is making preparations to largely increase the output this year, and its example will be followed by other large interests. The result will be largely influnced by the greater or less results of efforts to obtain additional labor. The wages of the miners now is fifty-five cents per ton, and that is the maximum price allowed by the scale now in force. It is probable that it will not be lowered for a considerable time anyway, and it should induce to this district a material accretion to the ranks of labor. J. M. K.

MARYLAND'S COAL BEDS.

Features of the Bituminous Measures in the State.

The coal measures of Maryland are a uthward continuation of those in the basins of Somerset county, Pennsylvania. They occupy a strip along the western border of Allegany county about twenty miles long and averaging five miles in width, and they cover somewhat over half, or about 400 square miles, of Gar-rett county. They are discussed in Part III of the XXII Annual Report of the Geological Survey, now in press, by Mr. David White, who notes the excellent work of the geologists of the Maryland Geological Survey, upon which, for the most part, his own statements are based.

The coal measures lie in three broad northeast-southwest basins. The easter most is the Potomac basin, called locally the Frostburg, the George's Creek, the Elk Garden and the Upper Potomac basins. North of the Potomac this basin lies in Allegany and Garrett counties; south of Piedmont nearly all of the western half of the basin is in Garrett county. By reason of the depth and accessibility of its coal, and of its geographical advantage with reference to tidewater and the Eastern markets, the Potomac basin is by far the most important of the three main basins, as its Big or Pittsburg bed is the chief source of coal in Maryland. Savage and Meadow mountains separate the Potomac basin from the second or Castleman basin in Northern Garrett county, which is drained by the Castle man river. The third, or Youghiogheny basin, includes a Lower Youghiogheny basin in the northwestern and an Upper Youghiogheny basin in the western part of Garrett county. Both of these two main basins are but little developed commercially, from lack of railway facilities.

The coal beds sufficiently thick to derve mention are the Bloomington, or Railroad coal, in Garrett county, from one to nearly three feet thick; the Mt. Savage coal, Allegany county, averaging about two feet thick, extracted and used at the the West Virginia Central & Pittsburg,

clay mines for firing the brick; the Westernport, or Two-foot coal, Allegany county, averaging from two to three feet thick; the Bluebaugh coal, in northeastern George's Creek district, Allegany over five feet thick in places, but variable; the Parker coal, Allegany, ranging from a few inches to nearly five feet in thick ness near Warrior Run; the Davis or Sixfoot seam, in the George's Creek district, which thickens as it goes south past Piedmont into Garrett, up to nearly nine feet near the corner of the State; the Thomas, or Three-foot coal, running from about three feet thick in the George's Creek district to five and one-half feet at Bayard, and exceeding six feet at Fairfax Knob; the Barton coal, from two and one-half to three and one-half feet thick in the George's Creek district—a valuable source of fuel for eventual exploitation; the Dirty Nine-foot bed, varying from over two feet to over ten feet in thickness though generally of no importance; the Elk Garden, or Fourteen-foot bed, Alle gany county, varying from five feet north of Frostburg to about nine or ten feet south of Louaconing, to over fourteen feet of workable coal near Franklin, and to about twenty feet at Elk Garden. This is the fuel known to the trade as Cumberland coal, one of the highest known grades of semi-bituminous steam coal. It is largely exhausted except in the region of Frostburg. This bed has an area of about thirty-five square miles. The Tyson, or Gas bed, is reported as ranging from four feet thick near Louaconing to about seven feet at Franklin, Allegany; the Koontz bed in the George's Creek district varies from five feet to over seven feet in thick ness, but is much broken up.

The Cumberland coal cokes satisfac torily, though on account of the greater profit in the raw fuel no coke is now made.

The Big, or Elk Garden bed, in the George's Creek and Frostburg districts, was one of the earliest of the northern bituminous seams to be worked. Coal has been extracted near Frostburg since about 1804, though not until 1830 was it shipped east in barges on the Potomac river. The commercial exploitation of the coal developed rapidly after the construction of the Baltimore & Ohio Railroad in 1842, and was further promoted by the completion of the Chesapeake & Ohio canal in 1850.

Maryland, ranking eleventh among the oal-producing States, had an output in 1900 of 4,024,688 short tons, valued at \$3.937,381. Much the greater part of this coal came from the Elk Garden bed, most of the remainder being obtained from the Davis and Thomas beds along the Upper Potomac in Garrett county.

With the exhaustion of the Big bed, the indications are that the thin beds will be more and more rapidly developed, as is already the case along the lines of the West Virginia Central Railroad towards the head of the Upper Potomac basin, where the Davis and the Thomas beds are in fine condition.

Most of the Maryland mines are operated by the "room-and-pillar" method. There is relatively little machine mining. The wage scale of mining in operation in 1901 was fifty-five cents per ton, run of mine, for hand work, or forty cents for machine work. The cost per ton of coal f. o, b. cars at the mines ranges from $67\frac{1}{2}$ cents to \$1, the average being about eighty-one cents. The greater part of the steam coal mined in Western Maryland goes to the factories and shops of the Eastern States north of North Carolina the chief points of destination being Washington, Baltimore, Philadelphia and Staten Island or South Amboy. A large percentage is used for marine consumption. The Potomac basin is traversed by

the Baltimore & Ohio, the George's Creek & Cumberland, and the Cumberland & Pennsylvania railroads. All the railways converge at Cumberland, whence the coal is transported by the Baltimore & Ohio Railroad, the Pennsylvania system and the Chesapeake & Ohio canal. The cost of transportation by the all-rail route from the George's Creek district is \$1.45 per ton for track delivery to Washington, Baltimore and Philadelphia, and for water shipment \$1.18 to Baltimore, \$1.25 to Philadelphia and \$1.55 to South Amboy.

Corsicana Oil Notes.

[Special Cor. Manufacturers' Record.] Corsicana, Texas, April 10. The recent chartering of a \$3,000,000 pipe-line company, with the main office in Corsicana, throws some light on the future operations in the Texas oil fields. The purposes of the company are to store and transport oil and gas and other min erals, to buy, sell and furnish oil and gas for light and heat, to construct and operate pipe lines, tanks, pump stations and other apparatus necessary to operate such pipe lines between different points in the State; also authority to own and occupy land and rights of way, buildings, etc., necessary for the purpose of the corporation. The directory shows the name of John W. Gates of the big steel combine, J. S. Cullinan of Corsicana and two mem bers of the Hogg-Swayne syndicate of Beaumont, and capitalists of New York and Chicago.

It is supposed that this company insure competition for the output of the illuminating-oil wells of Corsicana. More interest is manifested in the Corsicana field than for some time, and development work is moving with more vigor.

Oil was struck yesterday at Frost, twenty miles west of this city, while drillng in a well for water. The quantity was small, but the indications are good for a paying plan on further development,

Work was begun yesterday on the nev \$30,000 public-school building, the fifth of its kind for Corsicana.

The Commercial Hotel is to be remodeled and enlarged to about double its present capacity.

The rolling stock and steel rails for the new Corsicana electric street railway have been purchased. The cars are thirty feet long and modern in build.

Whitesell's big brick plant has installed electric-light machines, and is now running night and day to fill orders.

The Beaumont Oil Fields.

[Special Cor. Manufacturers' Record.]
Beaumont, Texas, April 12.
It is announced that W. T. McCue,

banker of Staunton, Va., and Mr. R. H. Edmonds of Baltimore have secured an option on half the proven land in Spindle Top, which indicates the probability of the organization of a great oil deal. The oil men of Beaumont have been looking for something of this kind for some time, but did not know just where to expect the information from nor who would be the leader in the movement. An institution of this kind could undoubtedly be of vast benefit to this community.

Thirty cars of machinery for the George A. Burt refinery have been received, and the work of construction on this institution will be pushed as rapidly as is possible for men and money to do it.

The recent burning of the Santa Fe roundhouse here, in which were engines with tanks full of Beaumont oil, has demnstrated to the entire satisfaction of the more reasonably inclined people that the oil is not of an explosive character, but, on the other hand, is easily controlled, and is really no more dangerous than coal, wood or any other fuel. The tanks were heated intensely, but the oil in them did ton on their way to Mexico.

not burn or explode, and the building itself fell in upon them as the fire raged.

There have been no new developments in Saratoga or Sour Lake this week other than the breaking loose of another mud gusher at the former place, in which mud. gas and oil were thrown fifty feet above the top of the 60-foot derrick. The company will at once make an effort to drill deeper. The general impression here is that the oil is just below these gas pockets in gushing quantities. At Sour Lake six new rigs have started to drilling, and the place represents an activity that is of onsiderable strength.

Japanese Studying Oil.

In an interview at Beaumont Chief Engineer Otsuka of the Imperial Steel Works of Japan, who is investigating American oil fields, said:

"We desire particularly to investigate the American methods of drilling, particularly the rotary system, which is used more extensively here than any other field in the world. As you know, there is con siderable oil produced in our country, but the process is slow, and with the system that has produced over 200 gushers in little more than one year Japan may become one of the leading petroleum-producing countries in the world. There are several railway locomotives in Japan using fuel oil, and if it can be imported at a price that would compete with coal there is no question but what fuel oil would have the preference. That is a matter that I have not thoroughly investigated, but it will be taken up later on, and it is not improbable that fuel oil will be imported into Japan. I have heard some remarkable descriptions of the Beaumont field, and expect to visit Spindle Top tomorrow. I have been through the Pennsylvania field, and found it a great oil-producing territory, but you have something out of the ordinary to oil men and geologists, and Beaumont has reached a stage where a man would hardly be considered up on petroleum if he had never seen a Spindle Top gusher."

Big Oil Contract.

It is announced that the United Gas Improvement Co. has awarded to the Lone Star & Crescent Oil Co, a contract for the delivery of 1,500,000 barrels of crude Texas oil per annum for five years. The oil is to be used in the manufacture of illuminating gas, and is expected to insure a saving in expenses of about \$750,-000 a year. This contract, involving an expenditure of more than \$2,000,000, becomes effective at once. The oil will be sent from the Lone Star & Crescent gushers in the Beaumont field by pipe line to Sabine Pass, and thence by steamers to New York and Philadelphia.

Notes from Huntsville.

[Special Cor. Manufacturers' Record.] Huntsville, Ala., April 14.

R. E. Pettus, president Chamber of Commerce, is in correspondence with In-diana capitalists who are seeking a Southern location for an iron-bed factory, and Mr. Pettus states to the Manufacturers' Record correspondent that there is a chance for this city to get the plant.

J. M. McKee has secured the contract to remodel the Harrison Bros.' block on Commercial Row.

The charter has been signed for the proposed \$7,000,000 trunk-line railroad through Kentucky, Tennessee and Alabama. All necessary money is in hand

During the first three months of this ear the imports at Galveston were valued at \$554,806, an increase over the same period last year of \$192,217. The most of these imports passed through Galves-

MR. SEARCH'S FAREWELL.

His Last Address as President of the National Manufacturers.

The National Association of Manufacturers is in session this week at Indianapolis. In his annual report, the sixth he has presented, President Theodore C. Search of Philadelphia called attention to the declining exports of American manufactured products, and urged manufacturers not to neglect their foreign customers in this era of extraordinary home demand, lest in times of depression they should find their foreign trade destroyed and no export outlets for the surplus of an overstocked home market.

Reciprocity formed one of the chief topics of the report, and the work of the National Reciprocity Convention, which was held in Washington last November under the auspices of the association, was reviewed at length. Mr. Search maintained that the Washington convention was thoroughly representative of the manufacturing interests of the country, and its action indicative of the true sentiments of the manufacturers concerning Assuming the doubtful reciprocity. chances of any action on the pending treaties of reciprocity with France and Argentina, he declared that further development of the reciprocal trade idea de pended upon the possibilities of special legislation like that for which the proposed concession to Cuba affords a pre cedent. Mr. Search said:

"The concrete proposition which now confronts us appears to me to be about like this: Is it feasible, safe and expedient to undertake to adjust our commercial relations with other nations by means of special legislation, dealing with each particular case, or is it preferable from all points of view to seek the same end by delegating to the executive arm of the government the power to negotiate international agreements for reciprocal concessions.

"Our treatment of the Cuban problem furnishes the precedent for the new departure in reciprocity, but while we rec nize certain obvious advantages in this plan, we must not close our eyes to the dangers that lie in such a course. must recognize that such a method of procedure practically invites a continuous tinkering of the tariff, the possibilities of which we can view only with distrust and alarm.

With regard to the proposition to create a new federal department, Mr. Search exressed gratification at the progress that had been made towards the passage of the Nelson bill, and urged more energetic per sonal support of the measure by the individual members of the association.

The principle of direct government aid to the merchant marine, as embodied in the pending ship-subsidy bill, was commended to the association as in perfect ac cord with the declarations of previous annual conventions,

Concerning isthmian-canal projects, Mr. Search took the position that the people really cared but little whether the Panama or the Nicaragua route should be chosen, so long ar some decisive action should be taken by Congress which would advance the matter to the point of actual undertaking of the construction of an interoceanic waterway.

The pending bills for the reorganization of the consular service on practical busiss lines were recommended for approval by the association,

Attention of the association was directed to the pending eight-hour bill and the "anti-injunction bill," both of which Mr. Search said very gravely concerned the interests of the manufacturers of the country, and should not be permitted to become laws without having been most

carefully considered in their bearing upon nanufacturing interests

What had been done during the year to protect members against the imposition of unconstitutional taxes and license fees under the foreign corporation laws of the various States was reported, and members were recommended to resist such discriminating and unjust demands.

Commercial education was discussed at considerable length, and Mr. Search recommended that the association should consider the feasibility of organizing a system of examination and certification of commercial students upon their completion of prescribed courses of study, or the establishment of correspondence courses of instruction, as alternative plans to meet the prevailing desire for larger facilities for instruction in practical business methods, more particularly those entering into international trade.

Mr. Search discussed with much emphasis the needs of the association as demonstrated by the six years of his presi-He said that the prevailing prosperity of the manufacturers and the concentration of their attention upon the problems of extraordinary business activity made it exceedingly difficult to com mand their support of such broad work as that for which the association was formed. The greatest need of the organization was a larger income with which to carry on the increasing volume of work, and he advocated the increase of the annual fee from \$50 to \$100.

As a means of increasing the influence and prestige of the association, Mr. Search suggested the holding of semiannual conventions of manufacturers and merchants for the consideration of special topics, such, for example, as methods of extending export trade. He also recommended the subdivision of the work of the association among a number of communities, a plan which he believed would give larger results and tend to strengthen the organization in many ways.

Mr. Search explained that his retirement from the presidency did not mean any relinquishment of his active interest in the association, but was due solely to his desire to be relieved from the arduous work of the position and to the increasing demands of his private business interests.

Texas' State Buildings.

During the past three years, under the dministration of Governor Sayers, there have been spent or contracted to be spent out of the general revenue of Texas \$1,346,845 on improvements of State institutions or in building new ones, Galveston News has made a careful tabulation of these expenditures for permanent improvements as follows:

Penitentiaries	\$264,343	97
Entlantia calone	250,000	
Epileptic colony		
North Texas Insane Asylum Agricultural and Mechanical Col-	136,056	439
lege	139,500	60
Deaf and Dumb Institute	113,845	00
State Lunatic Asylum	73,500	60
Southwestern Insane Asylum	60,600	00
Quarantine Station (Galveston)	60,000	90
Medical Branch University (Gal-		
veston)	53,063	00
Girls' Industrial School (new)	50,000	60
Southwest Texas Normal (San		
Marcos)	45,000	00
Prairie View Normal	25,515	00
Confederate Home	25,000	
Colored Deaf, Dumb and Blind		
School	16,514	19
Orphans' Home	13,807	
Sam Houston Normal	10,000	
New Experimental Station		
(Troupe)	10,000	00
Blind Institute	9,000	
		-
Total	1,346,845	30

The Southern Nut Growers' Association has been organized, with Messrs, G. M. Bacon of De Witt, Ga., president, and J. F. Wilson of Poulan, Ga., secretary. This organization is an outgrowth of the widespread interest in pecan growing in the South, and it will labor to encourage nut culture and to extend the markets for its products.

IN THE COTTON PALACE.

Lessons of the Exposition at Charleston.

[Special Cor. Manufacturers' Record.] Charleston, S. C., April 14. Every visitor to the South Carolina, In-

terstate and West Indian Exposition is ertain to notice the very attractive exhibits of American manufacturers in the Cotton Palace, and all interested in such matters find time to examine and study the story that is thus illustrative of the narvelous growth of the Southern States in the past quarter of a century.

The Cotton Pálace is the largest and nost imposing building on the fair grounds. It contains 50,000 square feet of floor space, with a dome rising to a height of nearly 200 feet and a facade of more than 360 feet. The structure occupies the most conspicuous portion of the Ivory City. It presents a very pretty iew by the light of the sun, but at night, when blazing with hundreds of many-colored electric lights, it cannot fail to inspire one with even a remote sense of appreciation of the beautiful.

The Cotton Palace and its contents form one of the most important as well as interesting features of the entire show, and the reason is not difficult to grasp. One of the greatest ends of the exposition promoters was to build up the interests of the only ruler of the South-cotton. There seems to be no spot on the globe where this plant thrives as it does in the Southern States of America, and the world looks to this section for much of the fabric with which to clothe itself. But within the past two years the Oriental trade has been seriously damaged by international complications in China. Cotton has been a drug on the market in the Far East, and the producers have, with characteristic farsightedness and shrewdness, determined to attempt opening up new marts for their wares. In the West Indies there is a demand, and in order that those islands may get in close touch with the country which is likely in the future to use so much of their cotton, it was decided to interest them, among others, in an exposition. This is one of the numerous uses of the fair at Charleston. Not only is the great development of the South in recent years shown, but the glowing possibilities of the future are depicted in a clear and forcible manner in the exhibits of this building.

As has been before pointed out in these columns, the purpose of the exposition at Charleston is to establish closer trade relations between the United States and the West Indies and the lower Americas; to promote the Southern manufactures of cotton and iron; to prove the advantages of Charleston as the connecting link between the producers of the Southwestern States and the Mississippi valley on one side and the markets of the world on the other. There is a splendid field in the West Indies for the development American commerce, During the last fiscal year the per capita imports from the United States by the people of the West Indies amounted to \$7.90 in value by South America but \$1.18, by the Philippine Islands but thirty-four cents, and by China but three cents. Charleston be ing the nearest and the most available port on the Atlantic coast for the development of the West Indian trade with the Southern States, it is hoped that the expo sition will lead to the opening of new markets for the products of the fields, forests and mines of the South. The people of Cuba and Porto Rico have been so much impressed with the importance of establishing intimate trade relations with the Southern States that they have collected at the exposition one of the most extensive and typical exhibits of the resources

of those islands that has ever before been made. This will probably give or least some idea of the importance of the exhibits contained in the Cotton Palace what they represent, and the resul which it is to be sincerely trusted then will be influential in bringing about in the ear future.

It is possible that many people would be interested in the following complete list of the firms taking part in the American manufacturers' joint export exhibits with the goods shown, in the Cotton Pal.

American Spinning Co., Greenville, 8. C., bleached and unbleached domestics ones and yarns.

Areade Cotton Mill, Rock Hill, S. C., bleached shirting and percales Abbeville Cotton Mill, Abbeville, S. C.

unbleached sheeting. Avalon Mills, Mayadon, N. C., hosiery und underwear.

Avon Mills, Gastonia, N. C., convertible oods, skirting and linings

Anderson Cotton Mill, Anderson, S. C., otton sheeting. Atherton Mills, Charlotte, N. C., cotton

Alamance Mills, Burlington, N. C.,

plaids and checks. Belton Mills, Belton, S. C., flannelettes,

hirting and sheeting .. Brandon Mills, Greenville, S. C., unbleached shirting and sheeting.

R. A. Blythe, Philadelphia, mercerized ods, bobbins, cones and yarns

Cold Springs Bleaching and Finishing Works, Yardley, Pa., madras shirting, ambric lawns, organdie, finished lawns, Bedford cord, duck, cream sateen, burean scarfs, table covers, barber towels, buck towels, plain white Turkish towels and red-border towels,

Cannon Manufacturing Co., Concord. N. C., bleached (Cannon) cloth.

Cowpens Manufacturing Co., Cowpens, S. C., Sea Island sheeting.

Cherokee Falls Manufacturing Co., Cherokee Falls, S. C., convertible goods, bobbins, yarns, seamless bags and ropes. Clifton Manufacturing Co., Clifton, S. heavy sheetings and drills.

Delgado Mills, Wilmington, N. C., heeting.

D. E. Converse Co., Clifton, S. C., drillngs and sheetings.

W. J. Dickey & Sons, Baltimore, allwool Jerseys and cotton duck.

Elmira Cotton Mills, Burlington, N. C., hecks, plaids and yarns.

Edgefield Manufacturing Co., Edgefield, S. C., sheetings and convertible goods, Excelsior Knitting Mills, Union, S. C.,

osiery, cotton batting and cones. Enoree Manufacturing Co., Enoree, S.

unbleached sheetings and drills. Easley Manufacturing Co., Easley, S. unbleached sheetings.

Fairfield Cotton Mills, Winnsboro, S. unbleached domestics

Florence Mills, Forest City, N. C., unbleached domestics.

Fort Mill Manufacturing Co., Fort Mill, S. C., staple ginghams.

Grendel Mills, Greenwood, S. C., unbleached domestics, yarns and bobbins.

Granby Mills, Columbia, S. C., conertible goods and bleached shirtings. Graniteville Manufacturing Co., Gran-

iteville, S. C., unbleached sheeting and Gastonia Manufacturing Co., Gastonia,

N. C., colored linings and shirtings. Greenwood Cotton Mills, Greenwood. unbleached sheetings, yarns, drills

and bobbins. Glencoe Cotton Mills, Burlington, N. C., cheviots, plaids and shirting.

Gaffney Manufacturing Co., Gaffney, S. C., bleached domestics, percales, skirt linings and ready-made shirtwaists.

Miss Sig La hand-w ists and Hugueno ots, cotton High Sh

April 1

Holt-Mo rills, she wels Holt-Wi C., yarns. Holt, Te Lockhan bleached :

> Loray leached Henriet leached Laborat C., white Lakesie as, che Lionda s. C., hea

nd unde Olympi 80x80 sl convertil Orr Co F. W. and unl cales an Piedm mont, S. bobbins. Pelzer C., blea shirting Pec I

ham, N

Pacole

burg. S

and dri

bleache

Spart

Richl

bleache Tuca cloths Steel bleache prints. Unio bleach Victo gingha Spri

checks Whi burg, Wa ville, shirti Asi sition benef

hams,

Win

have old gr to me and a rowing i ten d the T home do fe

this towa anyt all t

ets and bureau scarfs.

High Shoals Company, Hardin, S. C.,

tton cones and unbleached domestics.

Holt-Morgan Mills, Fayetteville, N. C.

drills, sheetings, ginghams, yarns and

Holt-Williamson Mills, Fayetteville, N.

Holt, Tolar & Holt, Fayetteville, N. C.,

Lockhart Mills, Lockhart, S. C., un-

Loray Mills, Gastonia, N. C., un-

Henrietta Mills, Henrietta, N. C. un-

Laboratory Cotton Mills, Lincoluton, N.

Lakeside Mills, Burlington, N. C., cot-

Liondale Manufacturing Co., Clifton,

Mayo Mills, Mayodan, S. C., hosiery

Olympia Cotton Mills, Columbia, S. C.

80x80 sheeting, 80x60 and 80x56, and

Orr Cotton Mills, Anderson, S. C., cot-

F. W. Poe, Greenville, S. C., bleached

and unbleached convertible goods, per-

Piedmont Manufacturing Co., Pied-

mont, S. C., sheeting, drills, shuttles and

Pelzer Manufacturing Co., Pelzer, S. C., bleached and unbleached cloth, drills,

Pee Dee Manufacturing Co., Rocking-

ham. N. C., cotton cheviots and ging-

Pacolet Manufacturing Co., Spartan

burg, S. C., unbleached shirting, sheeting

and drilling.

Richland Mills, Columbia, S.

bleached sheeting and convertible goods.

Spartan Mills, Spartanburg, S. C., un-

bleached sheeting and shirting. Tucapau Mills, Tucapau, S. C., print

Steele's Mills, Rockingham, N. C.

bleached and unbleached domestics and

Union Cotton Mills, Union, S. C.

Victoria Cotton Mill, Rock Hill, S. C.,

Springstein Mills, Chester, S. C., ging-

Windsor Cotton Mill, Burlington, N. C.

Whitney Manufacturing Co., Spartan

Warren Manufacturing Co., Warren

ville, S. C., bleached and unbleached

Aside from aims and uses of the expo

sition mentioned above, there is much to

benefit the people of a nation who can

ave something to draw them out of the

old grooves in which they are accustomed

to move with the least possible resistance, and at the same time with an ever-nar-

rowing tendency. Think of the broaden-

ing influence which a visit of a week or

ten days would have upon a farmer from

the hills of New England or the plains of

the West, or, indeed, a little closer to the

home of the fair itself! What will it not

do for the mountaineers of the section of the land which it represents? Through

this exposition, too, Dixie is doing its part

toward the obliteration of memories which

anything less than a great fair, in which

all the ends of the nation will be drawn

together and forced to acquaint them-

selves with one another, would fail,

bleached domestics and percales.

checks, damasks, plaids and stripes

burg, S. C., unbleached domestics.

shirting and colored percales.

deached sheetings and shirtings.

bleached shirting and drilling.

C., white and colored yarns,

ons, cheviots and ginghams.

S. C., heavy sheeting and drills.

desched sheetings.

and underwear.

onvertible goods.

cales and percalines.

shirtings and sheetings.

cloths and ginghams.

ton goods.

hobbins.

CHINESE EXCLUSION AND AMERICAN INDUSTRY

The pending bill is calculated, by its | United States the average increase, for

the decade, of capital employed in cotton

manufactures was 32 per cent., that of

South Carolina was 252 per cent. While

the average increase in the number of

wage-earners was 311/3 per cent., that

of South Carolina was 274 per cent.

While the average increase in the value

of products was 26% per cent., that of

South Carolina was 203 per cent. The

manufacture of cotton goods is now the

most important industry of South Caro

lina, since it gives employment to 62.7 per

rent, of the wage-earners employed in the

State, and turns out 50.6 per cent. of the

total value of the manufactures produced

in the State. The development of this

industry, which was temporarily arrested

by the Chinese troubles a year ago, has

been vigorously resumed, and bids fair

to proceed at such a pace that South

Carolina, which has already passed

Rhode Island, will in the next ten years

take the place of Massachusetts as the

foremost cotton-manufacturing State in

This brilliant prospect can be blighted

the prosperity of the South Carolina

mills and the gaining of a livelihood by

an army of 60,000 workers can be inter-

rupted-in only one way, and that is by

a shutting down of the export demand for

American cotton cloth. That demand

amounted in the first two months of the

resent calendar year to more than

\$6,000,000, and it is being maintained at

a rate without example in the commercial

history of the country, so that for the

current fiscal year our exports of manu-

factured cottons will probably exceed in

value \$30,000,000, or fully \$6,000,000

more than in 1900, the most prosperous of

any of the preceding years. Of this ex

port demand 60 per cent, is represented

by our sales to China, and it is on the con-

inuance and increase of these sales that

the prosperity of the cotton industry, not

only of South Carolina, but of the whole

That this fact is keenly appreciated in

ousiness circles in the North as well as in

the South was strikingly demonstrated at

the recent hearings before the committee

on immigration, on which occasions there

were present representatives of the cot-

ton-manufacturing interests of both sec

tions, and of many other commercial and

business interests as well-men from the

North like Messrs, Charles S, Hamlin of

the Boston Merchants' Association and

Chamber of Commerce: Theophilus Par-

sons, president of the Arkwright Club of

cotton manufacturers; P. Y. De Norman-

die of the Laconia and Pepperell Mills of

Maine; Clarence Cary of the American

China Development Company, which is now building a railroad in China; John

Foord, Silas D. Webb and other promi-

nent business men; while from the South there were Mr. D. A. Tompkins, in behalf

of the North Carolina cotton-mill owners,

and from South Carolina a large and in-

fluential delegation, including Messrs, El-

lison A. Smyth of the Pelzer and Belton

Mills; W. A. Courtenay of the Courtenay

Manufacturing Co.; John B. Cleveland of

the Whitney Manufacturing Co.; J. H.

Montgomery of the Pacolet and Spartan

Mills; John C. Cary of the Lockhart

Mills, and T. J. Hickman of the Granite-

ville Mills, representing, probably, at least one-half of the entire cotton-manufactur-

All of these representative business men

bore witness that they were opposed to

cooly immigration, and did not wish any

legislation that would make exclusion less

ing interests of the State.

United States, absolutely depends.

the Union.

restrictive action and inimical spirit, to

This is a consideration of vital import-

ance to the State which I have the honor

in part to represent, to the whole South,

and in an almost equal degree to New

England, New York and, indeed, the entire country. If this Chinese trade could

not be secured by us except at the price

of cooly immigration I would be the last

man to raise my voice in behalf of it. The

South has had quite enough of "race is-

sue," as it is, and heaven forbid that an

other race issue should be precipitated

upon the South, or the North either, by

any further irruption of a Mongolian na-

But as the exclusion of Chinese labor

ers is assured under both measures-the

present law and the new measure under

discussion-and as the former nourishes

our trade with China, while the latter

would check and stunt if not ruin it, why

should we hesitate to express our perfer

ence for a continuance of the existing

Speaking for South Carolina, Mr. Presi

dent, I may safely say that South Caro-

lina demands first of all that this country

shall do its duty on a question of honor-

that it shall maintain its integrity in the

fulfillment of its treaty obligations; and,

next, that this country shall so legislate

as to secure fair play for all its sections

and all its citizens alike—for rich and for

poor, for the laborers on the Pacific coast

and also for the laborers on the Atlantic

coast, for the miners in California and

also for the mill-workers of South Caro

lina. Aye, fair play, too, for the govern-

ments and respectable citizens of all for-eign nations as well, including China.

South Carolina does not want contract

labor or cooly labor in this country, and

would not tolerate it. Nobody wants it.

It is out of the question-out of the cal-

culation altogether. It will not be had

under the present law or under the pro-

posed law or under any other law, past,

present or future. But fair play we ought

o have and must have for all respectable

labor, for all respectable business men

and enterprises, and for all respectable

Now, is it fair to the people of the South,

just as they are beginning to prosper in

manufacturing and commercial enter-

prises, after long years of trouble and pri-

vation, to tear down and crush their new

enterprises, on the assumption that such

a ruinous policy is necessary in order to

keep out the Chinese, when in point of

fact it is not at all necessary and the

Chinese are being kept out by the exist-

ing law? That is the plain business

proposition at the basis of the whole ques-

Let us look at the matter a little more

South Carolina is now the second cot-

ton-manufacturing State in the Union.

The development of its cotton-mill indus-

try has been without parallel in any other

part of the United States. In 1890 there

were thirty-four establishments in South

Carolina devoted to this industry, repre-

senting a capital of \$11,141,833, employ-

ing 8071 wage-earners, and turning out

products valued at \$9,800,798. In 1900

the number of establishments had in-

creased to eighty, the amount of capital

to \$39,258,946, the number of wage-earn-

ers to 30,201, and the value of products to

\$29,723,919. While for the whole of the

*From his speech made in the Senate, April 14, on the Chinese Exclusion bill.

tion.

in detail.

governments under the sun.

law?

kill our trade with China.

stringent, but that they objected to the

proposed new legislation because, while

it was not needed for the purposes of ex-

clusion, it would necessarily subject repu-

table Chinese merchants and other busi-

ness men to much personal inconvenience

and annoyance, and would give them and

their government good cause for taking

offense, so that the natural effect would

be to greatly injure our trade relations

with China and to retard, if not to stop

The assertion is often made on the

pposite side of the question that China

will continue to trade with us just the same, no matter how we treat her. This

assertion is as discourteous to China as it

is untrue to the principles of human na-

ture and to the recorded facts of history.

Without multiplying illustrations, we

need only to go back a year or two to the

recent Boxer disturbances to show what

would probably happen in case of the pas-sage of the pending bill. The testimony

of Mr. Ellison A. Smyth before the com

mittee in one of the hearings that I have

alluded to is so important and clear on

this point that I quote a few sentences of

"Largely the mill interest in the South

is dependent on the export trade, and this

is peculiarly so with the trade to China.

This was very acutely felt during the de-

pression incident to the war in China,

which lasted about twelve months, in its

effect on the Southern millers. I doubt

if there was one Southern mill, or at least

there were very few Southern mills, that

during the fiscal year ending last July

were able to show any profit at all on

their business during the preceding

twelve months, and most of them showed

very considerable losses owing to the stag-

nation in trade, the piling up of their

goods, and their inability to sell their

products. And the efforts to get into other

trades and to make other goods that were

used in this country led to very fierce com-

petition with the mills of the country that

were built and that are devoted to the home trade. * * * If any additional restrictions are imposed upon the coming

to this country of Chinese merchants it

may lead to very disastrous results for

the Southern manufacturers and cause

very fierce competition between the mills

in this country for our home trade, as

there will be a large production that will

either have to be sold at some price, made

of some kind of goods to suit the home

trade, or the mills will have to stand idle.

It would lead to very great competition between the mills of the South and the

mills in New England for the home

It may seem strange that the difference

between profit and loss on an industry

whose annual product is valued at \$339,-

000,000 should hinge upon the retention of an export demand of \$17,000,000 or

\$18,000,000 a year. But this is not mere

guesswork. It is a fact which has been

demonstrated by costly experience. What

was the amount of the falling off in ex-

port business which, as stated by Mr.

Smyth, the executive head of the great

Pelzer group of mills in South Carolina,

began to spell ruin for the cotton mills of

the South and demoralization for the en-

tire cotton textile market of the country?

It was simply the difference between an

export to China of \$8,783,134 in the fiscal

year 1900 and \$4,552,534 in the fiscal year

1901. If a decrease in the export de-

mand amounting to only a little more than

\$4,000,000 had the results which every

cotton manufacturer knows to his cost it

had a year ago, what might be expected

from an interruption of the present very

large volume of our exports to the Chinese

Now, it does not need a war in China

trade "

it here. Mr. Smyth said:

altogether, the progress of that trade.

efore beer Miss Sigrid Hamilton, Bainbridge, N. Y. hand-woven and embroidered shirtce of the on Palace, he result Huguenot Mills, Greenville, S.C., chev ofs, cottonades, outing cloths, plaids and isted the

. T002

out in the ple woul complete he Amerit exhibit otton Pal

enville, 8 domesties, III, S. C. C. yarns.

ille, S. C. , hosiery nvertible

. cotton N. C.

nelettes C., un-

rcerized inishing hirting,

lawns. bureau ds and

meord. WDens.

ropes. on, S.

drill-

field.

, S.

mı. lill.

111-

m.

goods,

. C.,

. C.,

hams, cheviots and madras.

. C.,

, S.

to bring about a return of the conditions which so greatly affected our trade there during the fiscal year 1901, and which had so disastrous an influence on the en tire cotton-manufacturing industry of the United States. You have only to accept the logical results of the policy toward China and the Chinese which is embodied in the provisions of the bill before you to bring about a condition of commercial warfare between this country and its chief customer in the Orient, in the course of which the trade of which I have given the returns will shrink to or below the dimensions it had during the Boxer troubles of 1900. The statement has been made before a committee of the Senate and repeated here on this floor that we have nothing to fear from the retaliation of China in any case. Let me quote to you on this point the testimony of possibly the largest exporter in this country of cotton domestics to China, Mr. Silas D. Webb, the president of the China & Japan Trading Co.:

"All business in China is done under a system of guilds, based very much on the lines of the Federation of Labor in the United States. No person can go into business in China without being a member of a guild-that is, into any business of importance. The guild is governed in such a way that if its members should take a notion that the Americans were insulting them they would have a meeting quietly and state that they did not want to do any business with Americans or handle American goods, and it would be utterly impossible for any business to be done.

We shall certainly do our best to provoke such action if we insist on placing such annoying and humiliating restric tions upon the entrance and business ac tivity in the United States of Chinese merchants or students as would be resented by the citizens of the pettiest na tion with which we have commercial intercourse. Our trade with Japan has been greatly furthered by the fact that so many Japanese students and merchants came here to investigate and carried home with them not only American ideas, but also American wants, and so helped to create a market for our merchandise. We shall deliberately surrender any such advantage in regard to China if we turn over her mercantile representatives to our commercial rivals in Europe. If we persist in subjecting China to humiliating treatment, what ground could we have to complain if the Chinese government in the negotiation of the pending commercial treaties should say to the United States: "You cannot enjoy the benefit of the most-favored-nation clause in any new agreement touching your commerce with us, because you refuse to accord to our people the kind of treatment which the people of every other nation with which you have treaties demand and receive at your hands?" I do not see that we should have any just cause for protest if China were to place the same embargo on our merchants, students and travelers visiting the empire that we are now asked by the advocates of the pending bill to make perpetual in regard

Now, reverting to the conditions in the South, what would be the chief effect of a shut-down in the China trade and the conequent collapse of Southern cotton manufacturing? Who would be the chief sufferers? The effect would be to glut the home market with cotton goods in a few weeks, and then to close up the mills Who would be the chief sufferers? Not the mill-owners, not the cotton-growers, not the merchants and exporters, though all these would suffer much. The chief sufferers would be the operatives in the

mills-the thousands of happy, busy, wellpaid wage-earners now employed steadily in these mills and making a good living under agreeable and comfortable circum stances. These deserving operatives, most of whom have no other means of support and hardly any reserve funds, would be suddenly thrown out of employment, and who can measure the suffering that would ensue? In my own State the number of these operatives would reach perhaps 60,-000, to say nothing of their families and the very many who would be injured directly or indirectly by their loss of work; but there would be hundreds of thousands besides throughout the South who would be compelled to suffer in like manner. The effect would be felt acutely and painfully in North Carolina, in Georgia, in Alabama-in all the States where cotton is grown or cotton goods are manufac-The needs and rights of the laborers on the Pacific coast are entitled to be respected and defended, but when their principal demand can be satisfied by the resent existing law, under which their Southern fellow-laborers can thrive, why should they insist on a new law which will serve their own purpose no better, and under which their Southern fellow laborers will suffer so much poverty and misery.

The pending bill is not drawn in the interests of the United States. tion, if enacted, would infallibly injure the country instead of benefiting it. It is claimed to have been framed for the relief and elevation of American labor. Instead of that it would unquestionably inflict enormous loss and distress upon American labor. Without conferring upon the working people of the Pacific coast any further advantages than they now posss, it would take away from the operatives of the South much of the advantage that they have fairly won. It would likewise injuriously affect the business interests of the North, and, I believe, of the Pacific coast as well.

Imputing to my friends who advocate this measure all of the purity of purpose and honesty of intention that I claim for myself, I am still forced to couclude, after impartial study of the question, that the bill as it is presented for passage is faulty in conception, faulty in execution, faulty in deduction, faulty in logic, faulty in its premises and its conclusions. If this is too strongly put, I am at least sure that there is sufficient doubt as to the efficacy of this measure to accomplish its desired purpose and sufficient menace in the probable results of its unfairness to the great Empire of China to make wise its postponement and the postponement of any legislation upon this question until the expiration of the present treaty with China, which embraces the existing exclusion law.

For a Southern Tour.

The preliminary itinerary of Mr. Robert C. Ogden's New York party, interested in the Southren education problem, provides for a start from New York on the evening of April 21 in a train consisting of one sleeping-car, two apartment-cars, an observation and compartment car, a diningar and a combination baggage and smokers' car. The party will reach Hampton, Va., on April 22 and will witss exercises at Hampton Institute on that day and the next, leaving in the early evening for Richmond, where a stop for two hours will be made for a recep tion. The party will reach Athens, Ga., in time to attend the conference for education in the South on April 24-27. From Athens it will visit Calhoun, Montgomery and Auburn, Ala., and will spend April 29 at Tuskegee Institute. The next day will be spent at Chattanooga and Knox- and W. B. Chew, treasurer.

ville. May 1 at Christiansburg, Blacksburg and Lexington, and on May 2 Luray Caverns and the Gettysburg battle field will be visited. The party will return to New York on May 3.

Hardware Jobbing Combine.

It is announced that Mr. E. C. Sin s of the Simmons Hardware Co, of St. Louis is to be president of a consolidation of hardware jobbing interests of the country, capitalized at \$120,000,000. which will have its general headquarters for buying and selling and transporting goods at St. Louis. Mr. W. D. Simmons, who is to be the chairman of the executive committee, is quoted by the St. Louis Republic as follows:

Many economies which the public will ultimately get the benefit of. Well-assorted stocks will be kept at all great distributing centers on which the local dealers may draw fre quently, and by means of which they will be enabled to carry a larger assortment, do a larger business and make more money with the same investment of capital and labor.

"There is to be no attempt at monopoly or dictation and no intention of destroy ing competition. We go into it with the idea of being better able to serve the trade satisfactorily and assisting the small retail merchant to meet competition, no matter how large the competitor. Some sixty houses are already in, including most of the larger and more important

"In a few words, this joining of interests, which partakes in no way of the nature of a trust, is made to enable us better serve the trade and help to hold it within healthy lines."

Saltpetre in Texas.

State Land Agent O. L. Slaton has reported to State Land Commissioner Charles Rogan of Texas upon the discovery of saltpetre in El Paso county. He "No work of any consequence writes: has yet been done, only the slightest prospecting, consisting of very shallow digging and breaking of rocks. Copper, lead and silver are shown from the assays, copper predominating. The cave is on one of the claims on or near the top of the mountain, where a large lime rock about forty feet in diameter juts out, and the door of the cave is in this rock. Inside is a chamber about fifteen to twenty feet square and fifteen feet high, walls very rough, with small holes admitting light from above. The inner walls are very seamy and porous, and saltpetre appears in most of the seams and pockets, and also at the bottom of the cave. It is said to be caused by animal deposits, but I cannot agree to this, as there is no evidence of bats in this cave, and there is no place for them above or near it. The quantity seems to be very limited. As no work has yet been done here, I cannot tell if it comes from below, but that is the only way I can ac count for it."

Messes, Cerra & Cerra of Gijon, Spain who are interested in the importation of American manufactures into Spain, write to the Manufacturers' Record that railways have been in course of construction in Spain at various places during the past two years, and for all of them the mate rial has been supplied by firms in England, Germany, Belgium and France, with the single exception of the firm of Cerra & Cerra, who supplied the material from North America.

The Houston Cotton Exchange has elected Mr. William D. Cleveland, president; George W. Neville, vice-president,

FOREIGN TRADE.

This department is designed to set for pportunities for the extension of the ti abroad of American manufacturers, and to record facts about the rapidly-developing record facts about the

America and the Levant.

German iron circles look upon the direct freight service which has been inaug urated by the Hamburg-American and Levante lines between New York and Constantinople with misgivings, reports United States Consul-General Richard Guenther at Frankfort. He adds that it is taken for granted that the United States will at once improve the opportu nity and enter into lively competition with German trade in the Orient. The central organ of the German rolling mills expresses surprise that a German steamship line should have been ready to inaugu rate an enterprise opposed to the interests of German industries. A mitigating reason for the Levante Linie, it is said, may be found in the fact that it has operated without profit for seven years, and is therefore compelled to take hold of every opportunity to increase its revenue Nevertheless, the paper claims, Germans have a right to expect that the new line will adopt freight rates compatible with the interests of the German export industry, so that the greatest damage will at least be avoided. This expectation, th paper states, is also shared in government circles.

Swiss Using American Looms.

Mr. George Gifford, United States consul at Basle, writes that among the Amer ican exportations of the coals-to-Newcas tle kind may be mentioned the recent rather large shipments of ribbon looms to Switzerland. Even the men who buy them express surprise at finding them selves using an imported article in place of one which for generations has been manufactured here. These looms are much more expensive than those made in Switzerland, even leaving freight and duties out of account, but manufacturers find it profitable to use them because of their greater solidity of construction and the much larger amount of work they do. If it were not for the difficulty of readily adjusting them for the production of different widths and kinds of tissue, they would no doubt soon displace all other ooms for weaving plain ribbons. But they are built to produce only one article or a small number of articles of a partic ular kind on a large scale, after the Amer ican fashion.

Chances in Belgium.

Mr. Alfred A. Winslow, United States onsul at Liege, reports that the time is now ripe for a general move from America for the markets of that part of Belgium. He says:

"Business is improving, and the people are friendly toward American goods, and readily recognize their merits. I believe an active compaign by a few up-to-date salesmen would be the means of greatly increasing our sales here. In no line is this more apparent than that of machinery. Manufacturers have realized that they must have modern machinery and tools in order to keep pace with their foreign competitors, and now that the trade outlook is brighter, they are casting about for installations of the latest and best. Not only good salesmen to sell the machinery are needed, but competent American workmen to superintend its placing and operation. During the past year substantial progress has been made along all lines at Liege, but there is still room for

Constr

C

Chica

For

Choct

Speye

Ap

princi Itwas chase Rock ident quote prope mana positi ject. stock

both main Mem also lease Rive and is nl Othe

exte age nally a sh but phis rapi invo

In Dur whi feed fron tan pate

ma

mil the Isla Ro Ch H.

> the offi ma Fr

th

ADE.

s, and to developing

on the di een inaug. York and gs, reports l Richard dds that it he United e opportu tition with he centra mills ex. steamship o inaugu interests ating reasaid, may operated s, and is of every

oms. tes con e Amer Newcas ooms to ho buy them-

Germai

new line ible with

rt indus-

e will at

ernment

n place s been ns are nade in and ducturers use of on and ney do. readily of dif-, they other But

tates me is Bel-

rticle.

artic-

Amer-

lieve date hinthat

ade

all

for

CHOCTAW SYSTEM SOLD. Chicago, Rock Island & Pacific Re-ported to Have Bought It.

RAILROADS.

[A complete record of all new railroad building in the South will be found in the Construction Department.]

Formal announcement of the sale of the Choctaw, Oklahoma & Gulf Railroad to Speyer & Co., bankers, of New York, has been made at Philadelphia, where the principal office of the company is situated, It was reported that the road had been purchased to be turned over to the Chicago Rock Island & Pacific Railway Co. President Francis I. Gowen of the Choctaw is quoted as saying that the transfer of the property would mean a revolution in its management, but that he was not in a position to speak in detail upon the subject. The sale price, according to the annonneement, was \$80 for the common stock and \$60 for the preferred stock, both ex-April dividend.

The Choctaw, Oklahoma & Gulf has a main line 760 miles long, extending from Memphis, Tenn., to Amarillo, Texas. It also owns a line fifty-seven miles long from Little Rock to Hot Spirngs. It leases and operates the White & Black River Valley Railway, sixty miles long, and also has the Ardmore branch, which is about completed, 116 miles in length. Other branches owned or operated and extensions projected bring the total mileage of the system up to 1780 miles. Originally the Choctaw, Oklahoma & Gulf was a short coal road in the Indian Territory. but it purchased the Little Rock & Memphis line, and has for several years been rapidly expanding. The sale, it is stated. involves the payment of more than \$21,-000.000

Included in the deal is a proposition to purchase the Choctaw Northern Railroad, which is controlled by the Choctaw, Oklahoma & Gulf, to which it is an important feeder. The Choctaw & Northern extends from Geary to Alva, in Oklahoma, a distance of 104 miles, with a branch thirty-three miles long to Anthony, Kan. Dis-patches report that surveys are being made for a branch of the Choctaw from McLish to Denison, Texas, thirty-five miles, and from Hewitt, I. T., to Lawton, the latter extension touching the Rock Island at Comanche, I. T.

Credence was given to the report that the Rock Island is the real purchaser of the Choctaw, because about a month ago Chas. H. Warren, then vice-president of the Central Railroad of New Jersey, but now, it is stated, assistant to the president of the Chicago, Rock Island & Pacific, went to Little Rock, Ark., where the general offices of the Choctaw are situated, and made a thorough inspection of its property, going over the line for that purpose. Furthermore, the value of the Choctaw to the Rock Island is made apparent by the fact hat a short extension of a comparatively few miles would connect it with the Rock Island's new line to El Paso, and thus give the greater system a direct route eastward to Memphis.

Subsequently it was announced in New York that the Chicago, Rock Island & Pacific would issue \$24,000,000 of 4 per cent. bonds to pay for the Choctaw stock purchased by Speyer & Co.

New Line in Arkansas.

Mr. J. Ernest Jarratt of Jarratt & Son, manufacturers of staves, headings and doors, etc., at Marianna, $\Lambda rk.$, writes to the Manufacturers' Record as follows:

"The engineering corps of the St. Louis & Iron Mountain Railroad is pushing the survey for the proposed line from Memphis to Marianna. The Memphis, Arkan-

sas & Texas Railroad Co, made a survey through this same section several years ago, located the line and secured the right of way. The feasibility of the route makes it almost certain that one or the other of the companies will build the road, and perhaps at an early date.

"It is reported that a railroad will be built from Brinkley to Marianna. Preliminary survey has been made. A final survey to establish the line is to be made very soon. The projected road will open up a splendid farming country and pass through a well-timbered region. Connection at Brinkley will be made with the Choctaw and the Cotton Belt railroads,"

The line from Marianna to Memphis will be about fifty miles long, and that from Marianna to Brinkley, in a direction almost opposite to the other, would be about twenty-five miles long.

Atlanta's Union-Depot Plan.

Plans for the proposed new union-station building in Atlanta have been prepared by Bradford L. Gilbert, the architect in charge, and have been approved by Governor Chandler of Georgia and President J. W. Thomas of the Nashville, Chattanooga & St. Louis Railroad Co., lessee of the Western & Atlantic Railroad. They are now to be submitted to the other railroads interested for their approval.

The plans provide for a station with thirteen tracks, nine of which would be through tracks and four would be spur or short tracks. It is understood that the plan does not contemplate the closing of any streets, also that the tracks are to be elevated, and that the depot will be so arranged that passengers will not have to cross tracks in going to or from trains, As soon as the plans are finally approved they are to be made public in full,

Wadesboro to Winston.

Representatives of the Winston-Salem (N. C.) Chamber of Commerce recently appeared before a special committee and a number of members of the Charleston (S. C.) Chamber of Commerce advocating the construction of the proposed Wades boro & Winston Railroad, which would give a direct route from Charleston via the Atlantic Coast Line or the Norfolk & Western railroads to coal lands in Virginia and West Virginia. It was stated that the financial plan of the proposed construction was well advanced. The distance from Wadesboro to Winston-Salem in a direct line is about seventy-five miles, and a line so constructed would run through Anson, Stanley, Davidson and Forsyth counties, in North Carolina. It might also touch Rowan county.

A Virginia Project.

The Charlotte, Farmville & James River Valley Railway Co., recently chartered by the Virginia legislature, is to build a line about eighty miles long from Farmville southwest to Danville, connecting Smithville, Houston, South Boston, Danville and intermediate points, The line would run through Prince Edward, Charlotte, Halifax and Pittsylvania counties. It is proposed to construct, from a point on the line between Farmville and Smithville, a branch to connect with the Southern Railway either at Drake's Branch or Keysville.

Norfolk to Cape Henry.

The Chesapeake Transit Co., which is to build a steam and electric railway sixteen miles long from Norfolk to Cape Henry, Va., has begun laying track, according to a dispatch from Norfolk. A

haven. The company, it is understood, owns five miles of water-front at Cape Henry, and that property is to be improved. Much of the line has been graded. and it is expected that cars will be running by June 1.

Tallulah Falls Extension.

Mr. J. H. Hicks writes to the Manufacturers' Record from Clarksville, Ga., as follows: "Work has commenced on the extension of the Tallulah Falls Railway from Tallulah to Franklin, N. C., and the contract for the first five miles will soon be completed. When this road is finished it will be a great improvement to the country, and it will run through the last hardwood sections of the State." The Tallulah Railway extends from Tallulah Falls, Ga., to Cornelia, twenty-one miles, and connects with the Southern Railway.

Macon's Station Movement.

The mayor and aldermen of Macon, Ga., have unanimously adopted resolutions requesting the Southern, the Macon & Birmingham and the Macon, Dublin & Savannah railway companies to make some arrangement with the Central of Georgia Railway Co, to use its enlarged station and to abandon their present stations in that city, the object being to secure a union station, and also to afford travelers an entrance at a more favorable location in the city.

A New Electric Line.

The Graham, Burlington & River Falls Street Railway Co. has been incorporated in North Carolina to build and operate an electric railroad from the western limit of Burlington through Graham, thence to River Falls and other places in Alamance county. The headquarters of the company are to be at Graham, and the incorporators are J. W. Menefee, J. A. Long and J. C. Simmons. The company has \$100,000 capital.

Railroad Notes.

The elevated line of the Louisville & Nashville Railway over the town of Henderson, Ky., has been completed and placed in operation.

The Arkansas & Choctaw road will, it is reported, soon award a contract for building a line from the Red river to Wichita Falls, Texas.

The report of the Tennessee Car Service Association for March shows that 1800 cars were handled during the month, an increase over the corresponding month of

A dispatch reports that the St. Louis & San Francisco Railroad has acquired control of the Arkansas Valley & Western and will probably extend it from Sapulpa, I. T., to Enid, Okla.

A circular from the office of General Manager J. A. Edson announces that Mr. B. F. Dickson has been appointed engineer of maintenance of way of the Kansas City Southern Railway Co.

Plans have been completed for a new machine-shop building for the Missouri, Kansas & Texas Railway at Smithville, Texas. It will be 250x260 feet, and will be constructed of brick and stone.

The electric street railway line at Beaumont. Texas, will soon be completed, according to advices from that town. The cars have been built and it is expected that a portion of the road will soon be in operation.

Governor William A. Stone of Pennsylvania informs the Manufacturers' Record that there is no truth in the report

The Missouri, Kansas & Texas Railway Co., according to a dispatch from Joplin, Mo., will have the Joplin extension completed very soon, and will thus be enabled to compete for the business of the zinc-mining district.

Fifteen miles of track have been laid on the Suwannee & San Pedro Railway from Mayo towards Perry, Fla., which is to be the terminus of the line. The road crosses the Suwannee river about four miles below Luraville, Fla.

A dispatch from Huntsville, Ala., says that the charter has been signed and all necessary money is in hand for the build-ing of the proposed trunk-line railroad in Kentucky, Tennessee and Alabama. R. E. Pettus and others are interested.

The extension of the Hagerstown (Md.) Electric Railway to Boonsboro has been completed as far as Beaver Creek, and it is expected it will soon be finished to Boonsboro. Surveys are being made to continue the line over the mountain to Myersville.

A railroad two miles in length has been built from Savage Station, on the Balti-more & Ohio Railroad in Howard county, Maryland, to the Maryland Granite Co,'s quarries at Guilford. The granite company is erecting a hotel near its quarry, and also a general store.

Among the orders reported for the American Locomotive Co, are the following: Southern Railway, 30 engines; Chesapeake & Ohio, 25 consolidation and 5 passenger engines; St. Louis & San Francisco, 10 consolidation engines; Gulf & Ship Island Railroad, 6 engines.

The St. Louis & San Francisco Itailroad has, according to a dispatch from St. Louis, ordered the purchase of about \$2,000,000 worth of new equipment, including 53 locomotives, 700 coal cars, 700 box cars, 150 flat cars, 45 cabooses and 9 combination baggage and express cars.

The Oklahoma & Texas Southern Railway is preparing to build ten and one-half miles of line between the Missouri, Kansas & Texas Railroad and Montague, Texas. It also proposes to construct fif-teen miles of track southward to the Fort Worth & Denver Railroad at Sunset, Texas.

At the semi-annual meeting of North British Railway Co., recently held at Edinburgh, the influence of American railway practice upon lines in Great Britain was shown. It was stated that the company was building larger engines and larger freight cars, 1500 of the latter being ordered.

By the recent annual revision of the wage scale on the Baltimore & Ohio Railroad engineers and conductors are to get an advance of from \$8 to \$12 a month, and the wages of other trainmen have been slightly raised. The wages of fire men on heavy engines have been in-creased from \$2.20 to \$2.30 a day.

The St. Louis Southwestern Railway will, it is understood, remove its offic from Tyler, Texas, to Texarkana. It is announced that the line will be extended from Lufkin to Orange by way of Beaumont, a distance of about 115 miles, it being about ninety-five miles in an air line from Lufkin to Beaumont and twenty miles from Beaumont to Orange.

A dispatch from Houston, Texas, announces the completion of the Interna-tional & Great Northern's line from Bryan to Waco and the beginning of work on the line from Waco northward to Fort Worth. The road from Bryan southeast to Houston is to be completed as rapidly

C

cap

tha

wil

hei

Oil

for

10

Th

the

TEXTILES.

[A complete record of new textile enter s in the South will be found in the Con struction Department.]

Correspondence relating to textile matter especially to the cotton-mill interests of th South, and items of news about new mills or enlargements, special contracts for goods market conditions, etc., are invited by the Manufacturers' Record. We shall be glad to have such matter at all times, and also to have any general discussion relating to cotton matters.

A SUGGESTED COMBINE.

Proposition Before Southern Yarn Spinners.

Cotton-yarn manufacturers of the South have under consideration a proposition from New York for the organization of a company with \$60,000,000 capital, into which shall be combined the cotton-yarn mills of the South, and it is expected that definite action may be taken at a meeting at Charlotte next week. The Manufacturers' Record is informed that from pres ent indications the final outcome of the proposition is problematical.

The proposition which came from Mr. F. L. Underwood of New York is as follows:

"I have the following proposal to make for the purchase of your property. I will form, or cause to be formed, a compa under the laws of the State of New Jersey, with power and sufficient capital to take over all the mills engaged in the manufacture of cotton yarns in the Southern States, with 7 per cent, cumulative preferred stock of say \$30,000,000 and common stock of a like amount,

"For your lands and complete plant, in cluding stores or store rights owned and run by the mill company, or owned and run by some employe thereof, trade marks, trade-names, rights, good-will, etc., this company will pay such a sum as shall be named by a committee to be selected by the mill-owners with my approval, such price to be not in excess of 220 per cent, of the fair cash cost of replacing this property, as certified by the aforesaid committee of the mill-own ers. Payment shall be made to you for your property, one-half in each of the preferred and common stocks of the company formed for the purchase of the cotton-yarn mills. All indebtedness of your company is to be paid and discharged, or provision made out of the purchase price for said payment and discharge,

Said company shall take over and pay for in eash as per inventory all stocks of cotton or cotton in process of manufacture, goods on hand, stocks of goods in stores, and all quick assets, except cash on hand, and accounts and bills receivable, 50 per cent, of this inventory to be paid upon the conveyance of the mill property, and the remaining 50 per cent. or the amount found to be due upon verification of the inventory by the directors of the company.

"Said company shall have of its total preferred capital stock issued for each and plants not less than 20 per cent, in cash, or in stocks of cotton, goods, stores, plies, etc., for which capital stock shall be issued as for the plants. Upon the signification by the owners of 60 per cent, of the plants engaged in this business that this proposal will be acceptable to them. I will have prepared and submitted to your officers for execution a contract definite in form, covering the transaction hereby proposed. It is a part of this proposal that the loading of the new company for fees, commissions, expenses and charges of all kinds shall be between 5 and 12% per cent, of the total issued capital, to be paid in stocks of the company in the same proportion that they are issued for cash and plants. It is understood will employ about eighty operatives.

that there will be no charges of any kind to be made or deducted from the price herein named to be paid to you.

Representatives of 300,000 spindles appointed a committee of five to consider the proposition, and the committee has suggested its serious consideration and a report on it on April 23. A leading South ern spinner, in a letter to the Manufacturers' Record, says:

"It is a proposition that requires mature reflection, and while it is very plausible on its face. I see many difficulties in the way. It seems to me it contemplates corporations losing their identity and all being merged into one corporation, managed by one head and one board of directors. This, it seems to me, would put many men out of business."

Complete Cotton Plant at Pell City.

Our issue of last week mentioned the acorporation of the Pell City Manufacturing Co. of Pell City, Ala., for cotton nanufacturing and other purposes. ther details regarding the enterprise have been submitted to the Manufacturers' Record by those interested, and it is seen that a complete establishment for manufacturing the various products of the cotton plant will be built. This fact emphasizes the tendency towards the construction of plants to work up the staple into its every available product. A main building, 150x500 feet, three stories high, will be erected ccommodate the textile machinery, which will include 12,000 spindles and complement of looms for the production of denims. Building for cotton ginning and cottonseed-oil machinery will also be erected, and these departments will be equipped. Surveys have been made for the site by Ramsay-Reilly Engineering Co. of Birmingham, Ala., and the construction work is expected to begin by May 1. Boston (Mass.) architects are preparing the plans. The completed plant will consume 12,000 bales of cotton annually, employing about 750 operatives. As previously stated, New England investors are interested, among them being C. E. Riley of Boston, Mass. Company's capitalization is \$500,000, and George W. Pratt, 427 Prudential Building, Atlanta, Ga., is president.

Coosa Mfg. Co.'s Additional Mill. Announcement was made in the Manufacturers' Record of April 3 that the Coosa Manufacturing Co. of Piedmont, Ala., had determined to build an additional mill for spinning fine yarns, the probable investment to be about \$100, 000. Mr. A. G. Thatcher of Wilmington, Del., president of company, writes the Manufacturers' Record giving further and full details as to the new plant. He states that architects are now preparing plans for the building, which is to be two stories high, 102x190 feet in dimension, and that contracts have been placed for the 10,000 to 11,000 spindles that will be installed. The product will be warp yarns, 40s to 60s, from long-staple cotton, either American or Egyptian. and yarns as fine as 80s will be made, if required, from the same machinery, Messrs. Platt Bros. & Co. of Oldham, England, through their agent, E. A. Leigh of Boston, Mass., will furnish the card-room machinery; Howard & Bullough American Machine Co. of Pawtucket, R. I., will furnish the spinning and twisting frames, and Easton-Burnham Company of Pawtucket, R. I., will furnish the spooling machinery. The power plant has not been ordered, but about 400 horse power will be required to operate the equipment. Construction work will begin by May 1, and the plant, when completed,

To Establish Finishing Plants.

An announcement of considerable im portance to Southern textile-manufacturing interests was made during the week. comprised the news that the Union Bleaching & Finishing Co. has been incorporated (under New Jersey laws), with capital stock of \$2,500,000, for the pure of establishing in the South plants for bleaching, printing, dyeing and otherwise finishing cotton goods. The first plant will be located at Fayetteville, N. C., and preparations are now being made to begin its construction. This announcement, following soon after the recent beginning of work on a \$200,000 finishing plant at another mill town in North Carolina, is indicative of a movement towards finishing all Southern cotton goods at the mill. This will promote economies in marketing, as opposed to the expense entailed in sending goods to Northern and Eastern finishers. The formation of the Union Company has resulted largely from the efforts of W. M. Morgan, a well-known cotton manufacturer of Fayetteville. Company's president is James B. Duggan of Utica, N. Y.; vice-president, B. N. Duke of Durham, N. C.: directors Messrs, J. B. Duke, Anthony N. Brady and Thos. F. Ryan of New York city, Samuel A. Beardsley, James B. Duggan, B. N. Duke and W. A. Erwin of Durham, N. C.

To Add \$62,500 Weaving Mill.

A meeting of the stockholders of the Kesler Manufacturing Co. of Salisbury, N. C., was held last week. The report of the management showed that the plant has continued to operate on full time, and profitably. In view of conditions the ompany decided to erect buildings and install sufficient looms to weave into cloth the product of the 11,232 spindles now in osition. A fund of \$62,500 will be available for the addition, and capital will be increased from \$125,000 to \$187,500 to provide the fund. J. W. Cannon of Conord, N. C., is president, and to him is left the decision as to number of looms, character of product and other details. The No. 2 mill will have 300 looms for print cloths, and S. W. Cramer of Charlotte, N. C., is the engineer in charge of construc-

The Cotton Movement.

In his report for April 11 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 223 days of the present season is 9,416,642 bales, an increase over the same period last year of 325,602 bales. The amount of crop in sight for 1900-1901 on April 11, 1901, was \$7.55 per cent, of the total. If the same percentage persists this year the total crop would amount to 10,760,000 bules. The exports this season have been 5,697,276 bales, an increase of 496,302bales; takings by Northern spinne 1,835,741 bales, an increase of 164,047 bales; by Southern spinners, 1,219,777 bales, an increase of 148,268 bales,

A \$35,000 Knitting Mill.

Mention was made recently of the efforts of the Business Men's League at Waco, Texas, to establish a knitting mill. The Waco Knitting Mills Co, has now ocen organized to build and equip the plant and will incorporate with capital of \$35,000. Machinery will be ordered at once for daily production of 200 knit underwear garments, about 200 people to be employed. The directors are Messrs. M. L. Garrett (president), J. T. Tyler (secretary-manager), Geo. E. Knowles (superintendent), L. C. Penry, W. C. Talbert and W. H. Hoffman.

Textile Notes.

Leading business men of Columbus, Miss., are completing plans to organize company for the establishment of a \$100,-000 cotton mill.

It is proposed to organize a cottou-mill mpany at Aberdeen, Miss., and over \$85,000 has been subscribed. A \$250,000 plant is contemplated.

Knoxville (Tenn.) Cotton Mills' additional looms, reported last week, will number 200. It has not been fully determined what character of product will be manufactured.

Knoxville (Tenn.) Woolen Mills' improvements, reported last week, include the replacing of old narrow looms with ninety new broad looms for the manufacture of cassimeres.

Great Falls Cotton Mills Co. of Falls City, Tenn., is repairing the damage to its plant caused by the floods of last month, and expects to have the plant in operation in two months. Mill has 4000 ring spin dles and 130 looms.

H. M. Shaw and associates of Oxford, N. C., contemplate the establishment of a knitting-mill, and Mr. Shaw invites correspondence relative to the cost of equipment, selection of character of product, and other information.

Messrs, H. F. Douglass, B. F. Hamilon, H. G. Beard, Columbus Lytal and F. P. Stearns have incorporated the Shawnee Cotton Textile Co. of Shawnee, O. T., for manufacturing cotton products. capital stock is \$100,000,

The Board of Trade of La Grange, Texas, is endeavoring to organize a company for the purpose of building a cotton Messrs, John Killough and Alex. Rosenberg have been appointed a committee to visit mills in the State and report on the feasibility of the project.

Brenham Cotton Mills of Brenham, Texas, will build a mill to have equip ment of 5000 spindles and 160 looms for the production of the coarser grades of cloth. This company was reported last week as organized, with capital of \$150,-000. D. C. Giddings, Jr., can be addressed for particulars.

Drayton Mills of Spartanburg, S. C. has filed application for charter, capital stock being placed at \$250,000. Books of subscription are now open, and the stock is being rapidly taken by local investors, some of whom are officers of other cotton factories. Arch B. Calvert, mentioned recently as proposing an enterprise of this character, is the promoter. Incorporators are Mr. Calvert, M. F. Floyd. W. A. Law, John B. Cleveland, W. E. Burnett and A. L. White.

QUOTATIONS OF COTTON YARNS.

By Buckingham & Paulson, New York, Philadelphia and Chicago, April 15.

-		
1	No. 10s-1 and 12s-1 warps	14 67141.
	No. 148-1 warps	15 (0151)
	No. 16s-1 warps	
П		16 61
1	No. 29s-1 warps	16 61161.
1	No. 26s-1 warps	161/set -
-1	No. 6s to 10s bunch yarn	13346114
J	No. 128-1	141/201-
-1	No. 14s-1	141/4/01/15
- 1	No. 16s-1	15 61-
-1	No. 20s-1	151/400-
-1	No. 22s-1	151/26116
1	No. 268-1	16 @1616
1	No. 8s-2 ply soft yarn	141/600-
1	No. 10s-2 ply soft yarn	15 (1-
	No. Ss-2 ply hard	14 61-
. 1	No. 10s-2 ply hard	141/261-
1		15 01-
	No. 148-2 ply	15 @-
	No. 16s-2 ply	151/200-
1	No. 20s-2 ply	16 61161/2
		17 (1-
1	No. 26s 2 ply	173/201-
-1		18 @-
-		221 /1-
1	No. Ss-3, 4 and 5 ply	14 (1)
-1	No. 208-2 ply chain warps	161/262-
1	No. 24s-2 ply chain warps	
-1	No. 268-2 ply chain warps	17160118
- 1	No. 30s-2 ply chain warps	181/261-
-		151/201-
,		16 611614
à	No. 26s-3 ply hard twist	171/201
9	Market quiet, and not so firm as la	ist week.

steady.

PHOSPHATES.

Phosphate Markets.

Office Manufacturers' Record,

Phosphate rock in the local market con-

tinues to rule very steady for all grades. Receipts continue light, and fertilizer fac-

tories are not in the market to any urgent

extent. From Southern sources the ad-

vices continue unchanged, the situation

being in most cases satisfactory. The

market in South Carolina is quiet and

steady. Deliveries from the Coosaw works at Beaufort were made during the

week. The Florida market is in good

shape, and values firm, especially for peb-ble. Companies of prominence in the peb-

ble district are firm holders, and refuse to

sell except at their own figures. Land

rock is going out in considerable quanti-ties from the ports, and in Europe prices

for Florida hard rock are quoted firm at

6%,d. to 7d. per unit c. a. f. In the Mt.

Pleasant section in Tennessee the move-

ment is very satisfactory, and the various

companies engaged are preparing for act-

ive operations during the spring and sum

mer months. Valuable properties have

changed hands during the week, and oper-

ators have great confidence in the future of the market. Prices for both domestic

and foreign rock are very steady, and last

week another large shipment was cleared

for Europe from Pensacola, Tennesse

rock in Europe is very steady as to value

quotations firm at 5%d, to 61/4d, per unit

for 78 to 82 per cent, rock. The following

phosphate charters were reported last

week: The Spanish steamer Goyerri,

1934 tons, from Savannah to Rotterdam,

phosphate and general cargo at 23/6;

British steamer Robinia, 1308 tons, from

'ernandina to Dublin on private terms;

British steamer Yorkmoor, 2287 tons from the Gulf to United Kingdom or Con

tinent on private terms, and schooner M.

B. Seary, 1052 tons, from Port Tampa to

Fertilizer Ingredients.

The ammoniate market continues to rule

firm, and the distribution is of such a

character that prices throughout the list are well maintained. There is a fair in-

quiry from the East and South. Stocks

t primary points are reported light. The

North Carolina and Chesapeake bay fish-

eries are active, and the output large,

The following table represents the prices current at this date:

Phosphate and Fertilizer Notes.

The steamer S. T. Morgan was at Beaufort, S. C., last week loading the

last of the phosphate rock in the yard of

The steamship Buckminster for Bre-

men and Stettin cleared last week from Savannah, Ga., with 1649 tons of high-

grade Florida phosphate rock for the lat-

The Gulf Transit Co. of Pensacola

cleared the steamship Manchester Importer last week from Pensacola, having

phosphate rock for Manchester, Eng-

The Federal Chemical Co., which re

cently bought twenty acres of land in Nashville, Tenn., on which to build a fer-

tilizer plant, has awarded contracts for

the two main buildings, and will now

push the work to rapid completion. The

among her cargo 2193 tons of Tenn

land.

the Coosaw Company's works. .

Baltimore on private terms,

with prices for scrap firm.

Baltimore, Md., April 16.

in bulk delivered at New Orleans, per ton

Since the 1st of January ten new cot-

ton-oil mills, with an aggregate capital

stock of nearly \$1,500,000, have been or-

ganized in Mississippi. All these mills

are expected to be ready to operate when the fall season opens. The mills are lo-cated at Ittabena, Pickens, Como, Jack-

son, Clarksdale, Brookhaven, Carrollton, Grenada, Greenwood and Lexington.

Fully a dozen other towns are discussing

oil-mill propositions, and in nearly every

instance home capital is behind the enter-prises. The census industrial bulletin for

1900 showed that during the previous

ten-year period Mississippi made a gain

of 177.6 per cent, in the value of products

growth now being enjoyed by the indus-

try is the most prosperous in the history

Possibilities of Mobile.

mining engineer, has written an open let-

ter to the Chamber of Commerce of Mo-

bile, in which he elaborates the advan-

tages of Mobile as a port and connected

therewith as a manufacturing center. He

says that the growing commercial impor-

tance of the city will force it to become a great manufacturer. He finds no reason why the hides which are shipped to that

city from the Latin Americas should not

be worked into leather products, or why

cotton goods, woolens, pottery, cheap fire-arms, soaps, tinware and other articles

should not be made for sale in the West

Indies and in South and Central America.

He finds in Southern Alabama immense

possibilities for rice-growing and viticul-

"I cannot speak too favorably of the

possibilities of the inexhaustible marl,

rement rock and clay used in the manu-

facture of Portland cement, for which

there is a demand of over 1,500,000 bar-

rels in Latin America per year, to say

nothing of the home consumption, all of

which could be supplied from the deposits

of the Gulf plateau of Alabama, where

natural gas, petroleum and lignite are to

be found in sufficient quantity to burn

the cement at a less cost than at any other

place in the United States. Salt brine of

commercial quality and great quantity also saturates the lower formation, while

golden ochre, pottery clay and fertilizing marls are found in profusion. Such are

the mineral advantages that are destined

to kindle a brighter glow of progressive

prosperity of Mobile; but the whole story

cannot be told in a few words, and noth-

ing short of a personal investigation can

give a fair conception of the vast possibili-

ties of this important section of the great

To Irrigate Rice Lands.

Charter has been filed by the Calcasieu

& Mermentou Canal Co., with capital

stock of \$25,000, for the construction of an irrigation canal. The canal will con-

nect the Calcasieu and Mermentou rivers,

and by taking advantage of natural

water-courses its length will be reduced to

ten miles. This canal will reclaim thou-

sands of acres of overflowed lands and en-

able the rice-growers to send their product

to market at cheaper rates. L. Kaufman

is president; J. A. Bell, vice-president; H.

B. Milligan, secretary, and H. C. Drew,

Sales in the Joplin (Mo.) district during

the week ended April 12 were 9,427,610

pounds of zinc ore and 1,551,210 pounds of

The carriage and wagon makers of the

South will have a convention at Charles-

treasurer, all of Lake Charles, La.

lead ore, valued in all at \$167,769.

South."

ture, and he adds:

Mr. C. F. Z. Caracristi, the well-known

manufactured from cottonseed.

of the State.

of 2000 pounds, \$15.

fertilizer building will be 180x40, and the

acid building 300x80 feet. It is expected

that the entire plant will be in operation

The extensive new fish-oil and soap

factory at Old Brunswick on the Cape

Fear river, the property of the Cape Fear

Fisheries, is about completed and ready

to commence operations. Seven steamers

The Providence Drug Co. (Limited) of

Lake Providence, La., has been chartered with a capital stock of \$50,000. The

officers of the company are as follows:

Dr. W. B. Pierre, president; J. G. Pittman, vice-president; W. D. Brown, secre-

tary and treasurer, and Dr. J. E. Brown,

It is reported that the Southern Phar-

nacal & Chemical Co. of Louisville,

Ky., was sold last week to J. D. Baldwin and W. E. Turner, two St. Louis drug

manufacturers and capitalists. The stock-

holders and directors of the company at a

meeting confirmed the action of the offi-cers in selling the plant. The purchasers

will begin operations at the plant as soon

It was reported last week in Columbia,

Tenn., that the Howard & Ridley Phosphate Co, had disposed of its entire inter-

sts to the Charleston (S. C.) Mining &

Mineral Co. for the sum of \$425,000. The

companies are two of the five largest in-

terested in the Tennessee phosphate field.

It is stated that immediate possession will

be given to the Charleston Mining & Min-

eral Co., which is a branch of the Virginia-Carolina Chemical Co. In a letter

to the Manufacturers' Record the Vir-

ginia-Carolina Chemical Co. states that it

has purchased the property of the Howard

& Ridley Phosphate Co. at Mt. Pleasant,

Marble in Tennessee.

Within a radius of about thirty miles of

this city there is to be found inexhaust-

ible deposits of the best marble in the world. The United States government

has made exhaustive tests of all available

foreign and domestic marbles for its own

use and found that this marble sustained

the highest crushing strain and absorbs

less moisture than any other, the latter

feature making it less susceptible to stain, and therefore most desirable for

interior decorations as well as other pur-

The different deposits contain dark

variegated, gray white, and the most deli-

Architects and builders are fast becom-

ing acquainted with the superior qualities of this marble, and notwithstanding the

fact that the price, which has ranged for

several years past at seventy-five cents to

ninety cents per cubic foot for rough

blocks on cars here, has been advanced

within the past year to \$1.50 per foot, the

demand is far in excess of the output. It

is rumored that present operators are dis-

ussing the advisability of organizing to

divide the expense of buying up all acces-

sible properties not yet in operation, as

each one already has more territory than

he can exhaust in this and the next gen-

To give an idea of the great future that

awaits this industry, our operators have

not yet made one effort to export, and in

fact only produce about one foot for con-

sumption in this country to where there

The Tennessee marble business has

passed the experimental stage, and there

are a number of valuable and available

properties here which it will pay invest-

E. A. AKERS.

are ten of Italian marble used.

eration.

ors to examine.

cate tints of red and pink.

Editor Manufacturers' Record:

Tenn., and expects to operate the same.

as arrangements can be made.

are now fishing for the company.

about the 1st of October.

oil and fertilizers.

that city.

COTTONSEED OIL.

This department is open to the full and free discussion of trade topics and practical questions, and contributions are invited from men who are identified with this industry. Items of news are always acceptable.

Cottonseed-Oil Notes.

been organized at Prattville, Ala., with a capital of \$50,000. The company will

equip a plant to manufacture cottonseed

It is stated by the management of the

Georgia Cotton Oil Co. at Albany, Ga.,

that improvements aggregating \$15,000

will be made in the plant at that place

It is stated that the Southern Cotton

Oil Co, closed a deal last week for a site

for a cotton-oil factory at Pensacola, Fla.,

and will at an early date erect a large fac-

tory building near the cotton compress in

The Ittabena Cotton Oil Co., located at

Ittabena, Miss., was incorporated on the 10th inst., with a capital stock of \$75,000.

The officers of the company are P. Cohen,

H. Godsey, secretary and treasurer, and

The Charlotte (N. C.) Cottonseed Oil

Co. has, it is understood, about completed

the purchase of eighty-three acres of

water-front property on Paradise creek, near Portsmouth, Va. The company in-

tends to erect upon the property a plant

for the manufacture of cottonseed oil and

The directors of the Commerce Oil Mill

Co. of Commerce, Texas, met and organized by electing the following officers: W. J. Taylor, president; S. B. Jackson,

vice-president; W. A. Marclay, secretary. An assessment of 25 per cent. of the stock

was called for. It is the intention of the

company to have the mill in operation for

After a thorough survey of the field the

stockholders of the Progressive Oil Mill & Fertilizer Co. and the Brookhaven

Cotton Oil Co. of Brookhaven, Miss., have

decided to consolidate their interests and

establish only one cottonseed-oil mill at

that place instead of two. The new com-

any is to be known as the Brookhaven

Progressive Cotton Oil Co., with a capital stock of \$60,000. E. H Easterling is

president and Louis Cohn, vice-president,

and David Cohn secretary and treasurer.

firmer last week. Both on crude and yel-

low oil there was an advance of one-half

a cent. Linters were also stronger. The

market for cottonseed meal has broken

about \$2, due to the fact that very little

or none of the Texas product is to be had

and the offerings made on supplies shipped

from other States. Cottonseed oil, crude,

loose, was quoted at $34\frac{1}{2}$ to 35 cents, and

summer yellow oil at 371/2 to 38 cents; lin-

ters, 21/4 to 21/2 cents, all f. o. b. mills at

interior points in the State; hulls, loose, \$8

per ton; cottonseed meal, \$24.50, and cot-

The following are the official quotations

of cotton and cottonseed products as

posted at the New Orleans Cotton Ex-change on the 14th inst.: Prime refined

oil in barrels, per gallou, 41 cents; off refined oil in barrels, per gallou, 40 cents;

prime crude oil, loose, per gallon, 35 cents

price cottonseed cake, per ton of 2240 pounds, \$24.50; off cottonseed cake, per

ton of 2240 pounds, \$261/8; prime cotton-

seed meal, per ton of 2240 pounds, \$261/8;

soap stock, per barrel, \$1.25; linters—A, per pound, 3% cents; B, 3½ cents; C, 2% cents; cottonseed in sacks delivered at

New Orleans, per ton of 2000 pounds, \$16; ton on May 6, 7, 8, 9.

tonseed cake, \$24, f. o. b. Galveston.

Cottonseed products in Texas were

J. M. Phillips, general manager.

by-products of cottonseed.

the approaching season.

esident; J. L. Haley, vice-president; J.

before the next cotton season,

The Autauga Oil & Fertilizer Co. has

Columbus. rganize

otton-mill and over \$250,000

lls' addieek, will lly deter-

ills' im-

nanufacof Falls ge to its month, peration

nent of tes corequinroduct, Hamil-

ng spin-

awnee T., for range,

ited a te and iect. nham, equip-

ns for les of \$150,e ad-

other menprise loyd.

NS. (141)

15

f a \$100,-

include ms with

and F.

cotton and

ks of

stock

. E.

Ap

Impre

The

veying

other

for the

metho

metho

Howe

that 1

hereto

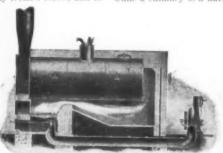
MECHANICAL.

Mechanical Draft.

Of the many different mechanical appliances used for producing artificial draft, the centrifugal fan or blower is said to be the one most generally employed and giving the best results. The two common methods of producing artificial draft on steam boilers by the use of fans are commonly termed forced and in-

opens, admits more steam to engine, and increases the speed, thereby increasing the draft on boiler. If the steam pressure in boiler rises, the action of the valve is just the reverse. This makes it possible to keep steam pressure practically constant without attention to draft regula

The blower is very readily adapted to any location and any desired changes or alterations to be made to the steam plant, while a chimney is a fixture. A chimney



FORCED DRAFT.

the combustion of fuel is discharged into ash-pit, maintaining a static pressure. which forces the air through the fires and the flue gases out of stack or chimney. With the latter, the flue gases are drawn from the combustion chamber through flues and smoke connections, and discharged into the chimney by an exhaust By drawing the gases from combustion chamber a partial vacuum is produced, and the atmospheric pressure under grates forces the air through the

In general, the advantages of mechanical draft are independence of atmospheric conditions, regulation, adaptability, econ omy of space, smoke prevention, omission of chimney, portability, cheaper in first cost, smaller operating expense, cheaper fuel, increased combustion, combustion efficiency, utilization of waste gases smaller boiler plant.

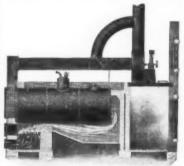
Every one knows that the intensity of natural draft is dependent upon the difference of the temperature in the stack and the temperature of the surrounding As these temperatures, and espe cially that of the atmosphere, are extremely variable, it is readily seen that the draft cannot be constant. In some cases the draft may vary 25 per cent, on account of sudden atmospheric changes With mechanical draft the intensity of the draft is dependent alone upon the speed of fan, and therefore is uniform, no matter what the atmospheric conditions may be,

For street-railway and electric-light power plants, where the load, and conse quently the required steaming capacity of the boilers, is variable, mechanical draft is admirably adapted. The draft can be increased by speeding up the fan, thus increasing steaming capacity of boilers and making it possible to carry heavy overloads, which could not be carried with natural draft.

With a chimney the only control of the draft is by dampers, which diminish the volume of air, but do not affect pressure at a given temperature.

One of the great drawbacks with natural draft is that, on account of draft being dependent upon the intensity of the fire, it is least when fire is low, usually the time when the strongest draft is With mechanical draft, by needed. changing the speed of blower the volume of air supplied to the fires and the pres sure are simultaneously changed. By placing a regulating valve on the steam pipe of engine driving the blower the draft can be automatically controlled by the steam pressure in boiler. As the steam pressure goes down this valve slowly

duced draft. With the former the air for is built on substantial and costly foundation, while a blower can be set on top of boiler, hung from roof or placed in another room. In any case, the cost of foundation for the largest blower and engine is small when compared with the cost of moderate-sized foundation for even a



INDUCED DRAFT.

chilmney. This is an important item in cost of installation.

For a temporary plant mechanical draft avoids the necessity of a chimney, and a buyer can easily be found for a secondhand blower. An old chimney is worth practically nothing.

double-fan induced-draft plant less than 50 per cent, of the cost of an ordinary brick stack. A double-fan system is only ased when the service is continuous, one fan being held in reserve while the other is in operation.

Many think that the cost of operation is onsiderably more with mechanical draft than with natural draft, because after the chimney is built it requires no power to produce draft, while with mechanical draft it is necessary to supply power to operate the fan. The steam required to drive the fan engine is seldom more than 1 per cent. of steaming capacity of boiler plant, and about one-seventy-fifth of the heat required to produce the same draft by a stack. The exhaust from fan engine can be utilized for heating feed water or building. Cheaper fuel can be burned, or more heat extracted from a good quality of coal, thereby lessening consumption for a given output. In many cases this saves more than 40 per cent, in cost of With a very poor grade of fuel fuel. mechanical draft seldom increases the fuel consumption 50 per cent, above consumption with a good quality of coal and natural draft. As these cheap fuels cost less than half as much as a good quality steaming coal, it is seen that a saving of 25 per cent, can be accomplished in most

By installing an economizer the heat which with natural draft would be discharged from stack can be utilized for heating feed water. The actual saving in fuel by an economizer is 10 to 16 per cent., depending upon type and conditions of operation. On account of the necessity of maintaining a high temperature of the flue gases in stack, it is seldom that economizers can be used with natural draft uness the stack is very high. Economizers, being heat abstractors, will lower the temperature of the gases. As the temperature of gases approaches the temperature of the atmosphere the effect of varying atmospheric conditions on the draft is more marked. As stated before, with mechanical draft the temperature of the gases has nothing to do with the intensity of draft, and they may, therefore, be cooled down even to atmospheric tempera ture, if possible, without diminishing

producing the draft. By using a fan or blower it is possible to produce combustion at the rate of 120 pounds of coal per square foot of grate surface, and a rate of forty or fifty pounds is very common.

By increasing combustion greater steaming capacity is obtained, and the horse-power output of boiler plant can be readily increased from 25 to 100 per cent. at a small initial cost by the installation of mechanical draft. The possibility of over-rating the boilers in this way makes it advantageous in many cases to install a smaller boiler plant; this means a smaller boiler-room, less ground space, a smaller investment, and consequently a reduction in the annual fixed expenses.

Where applicable, induced draft is genrally preferable to forced draft for the following reasons:

A much more even fire will be obtained. and there is no trouble from holes or patches burning in certain spots, as with forced draft, unless carefully watched. With forced draft, owing to the static pressure it is necessary to maintain in the ash-pit and combustion chamber, gases and ashes are forced out of the firedoors and ash-pit doors when opened unless the draft has first been shut off. This is avoided in induced draft, as a partial vacuum is maintained in the combustion hamber, and the air naturally flows into boiler instead of the gases being forced out. The ventilating of boiler-room is better, as the air is drawn out of the room instead of filling it with obnoxious gases. Owing to the velocity of the gases through the flues, soot or dirt will not deposit as With induced draft very much larger fuel economizers can be used, as the temperature of the gases can be reduced to a very low point, and very useful heat absorbed without bad effects.

Owing to the difference in the size of fans for forced and induced draft for a given steaming capacity of a boiler plant, the cost of installation is somewhat in favor of forced draft, and in some cases the smaller space occupied makes it advantageous to install forced draft. As far as the cost of operation is concerned, there is not much choice. There are cases, however, where induced draft cannot be applied. It cannot be used in connection with underfeed stokers or hollow

Stack III

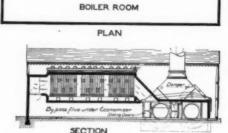


INDUCED-DRAFT PLANT, HARRISBURG STEAM HEAT & POWER CO., HARRISBURG, PA.

An important matter to be considered is the initial cost. This is almost invariably in favor of mechanical draft, and enerally the difference in cost is so much that it will pay for installation of econo-The larger the steam plant the mizers. greater the proportionate difference in the cost of a stack and a fan and engine equipment. For a plant of the average type a forced-draft plant with a short stack costs less than 25 per cent, of the cost of a chimney: a single-fan induceddraft plant less than 40 per cent., and a

With a properly-designed mechanicaldraft plant little or no smoke is produced, and where a smoke ordinance is enforced this in itself is sufficient reason for installing such an equipment.

The rate of combustion is rarely more than twenty-five pounds of coal per square foot of grate surface when the draft is dependent upon a stack, and even at that rate the stack becomes such a huge affair and so expensive that a higher rate of combustion is practically an impossibility without some other method of



grate bars. For marine work, and especially for war vessels, forced draft is almost invariably used because of the smaller space occupied.

Accompanying illustrations show the boiler plant of Harrisburg (Pa.) Steam Heat & Power Co., induced-draft equipment for which was furnished by the American Blower Co. of Detroit, Mich. They give a clear idea of the arrangement of boilers, economizers, fans and engines, and show how mechanical draft is adapted to plants of this character.

speed mill Buffa meth rents fact, dutie curre mone ment of wo as gr

refus

and l

Dowe nace Sp scrip

wher must plied dust Th num serve the d

draw

char

102.

fan or

mbus-

a rate

reater

nd the

can be

r cent.

llation

ity of

makes

install

ins a

ace. a

itly a

s gen-

or the

with

ched. static

in in

nber.

fire-

d un-

This

ertial

stion

into

rced

ases.

ough

it as

auch

l, as

e of

or a

ant,

nses

As ned, are con-

mon.

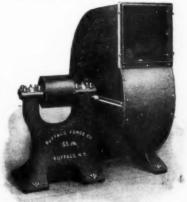
Improved Buffalo High-Speed Steel-Plate Exhaust Fan.

The use of pneumatic current for conveying shavings, sawdust, cotton and other light substances is not a new field for the engineer. Perhaps it was nature's method of transportation that caused this method to be tried by man long ago. However, it is only within recent years that this method has met with success. The method of producing the current had heretofore been the cause of failure, but

In the first illustration will be seen a left-hand top horizontal discharge Buffalo planing-mill exhauster. The blast wheel is built up of curved steel-plate blades bolted at their center to the spider arms and at their edges to conica! sideplates for securing additional rigidity. Wrought-iron tee arms cast into a heavy rast-iron hub form the spider. The scroll and sides of the housing are of heavy steel plate, bolted together and rigidly braced with angle irons. The cast-iron pedestal provides large oil-ring bearnow this is so effectively and efficiently ings for the pulley shaft, on which the

it is desired to collect the refuse it is The crushing surface is made up of a usually discharged into a Buffalo shavings separator, by means of which the woody particles are effectually separated from the air currents. If to be burned, the refuse is discharged from the separator into bins, which are best located near the furnaces, so as to render further handling unnecessary,

In conclusion, the company says that in handling a given volume of air the friction head or pressure which opposes the fan varies inversely as the fifth power of the diameter. The absorption of power applied to Buffalo planing-mill exhausters by friction will not exceed 10 per cent. to 17 per cent, under proper application.





IMPROVED RUFFALO HIGH-SPEED STEEL-PLATE EXHAUST FAN.

produced by the improved Buffalo highmill exhausters, manufactured by the Buffalo (N. Y.) Forge Co., that the method of conveying by means of air currents has no insuperable difficulties; in fact, it has been so perfected that other duties are now performed with pneumatic currents with a saving of time, labor and money. Among these duties might be mentioned the following: The elevation of wool, cotton and other textiles, as well as grain, the removal of the heavy fine refuse resulting from grinding, polishing and buffing processes, and the injection of | ditions.

speed steel-plate exhaust fans or planing- The perfection of these bearings enables the fan to be driven for long consecutive periods with minimum attention.

When the piping of the system is likely to be complicated, the fan shown in the second illustration often changes it to a very simple system. It will be seen that this unit exhausts from opposite directions, while the discharge is in the same direction. It requires but one belt, and may be placed upon a raised platform, entirely out of the way. The capacity is double that of a single fan under similar con-

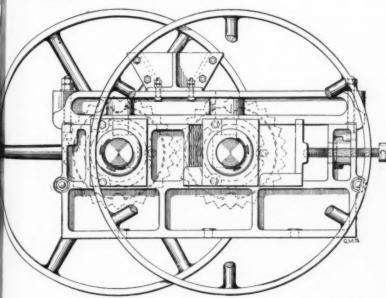
overhung blast wheel is securely keyed. C. G. Buchanan's Patent Toothed Rolls.

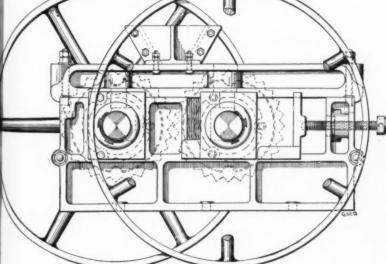
A number of toothed rolls have been designed and put upon the market, but as most of them are light in construction, faulty in design, and being intended to sell at a low price, they are not as well finished as other types of rolls,

The toothed roll illustrated herewith is considerably heavier than the ordinary type, and is exceedingly well built. All joints are machined and fit accurately. can be set closer together, and will produce

number of machined rings of open-hearth or manganese steel, bored or ground on the inside and fitted to a turned center. These sectional rings have a number of pyramidical projections formed on them, the shape and size of same depending upon the character of the material to be treated. The rings are so arranged on the center that the points do not come opposite each other laterally, but the points on one roll fit into corresponding cavity or groove on opposite roll. This arrange ment gives a very powerful crushing ac-tion, as most of the material is broken by the point of a tooth striking a piece supported at each end or on two points of rings on opposite roll, so that the center of the mineral to be broken is unsupported, and will consequently break under much less pressure and consumption of power than could possibly be obtained from rolls having smooth surfaces or from a single-toothed roll working against a plain fixed surface. These rolls are usually furnished with four heavy coiled springs behind each bearing of the movable roll, and any pressure up to twentyfive tons can be put upon the springs by means of the heavy screws at end of frame. For soft material is used a hollow casting called a "breaking cup," which is placed between the sliding journal and the point of the adjusting screw.

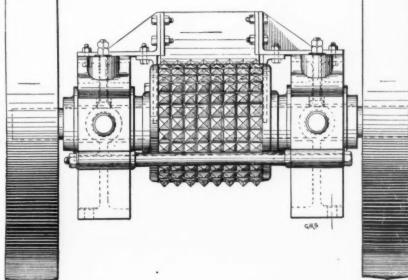
This casting is light, very cheap to replace, and strong enough to crush ordinary material, but is relatively weaker than other details, and will yield in case of the accidental intrusion of iron or any foreign substance too hard to crush. These cups can be very quickly replaced, and will prevent breakage of important and expensive parts. The adjustment to crush fine or coarse is made by means of "shims" placed in front of sliding-roll journals and frame; by removing one or more of these shims the rolls





SIDE ELEVATION

C. G. BUCHANAN'S PATENT TOOTHED ROLLS.



END VIEW.

powdered coal into high temperature fur-Space will not permit of a detailed de-

scription of the variations in the system when applied to so many uses, so that it must suffice to describe the system as applied for the purpose of conveying sawdust and shavings.

The size and construction of the apparatus must of necessity vary with the number of woodworking machines to be served, the positions of these machines, the direction from which the shavings are drawn and in which they are to be discharged.

Starting at the woodworking machines, tively high velocity from the teeth knives or cutting parts, is caught by the hoods of light sheet iron, which are placed in close proximity to the surface from which the refuse is cut. Each such hood is connected to the main exhaust pipe, which is increased in size as it nears the fan, and must handle the refuse of more machines. These pipes should be as short as possible, but should not have short bends. After passing into the fan, the sawdust or shavings is discharged into a pipe, the babbitt metal is so placed that it will and at very small cost. The rings are which conveys it to any depository. When receive all the pressure due to crushing.

The shafts are of the best quality of steel. the refuse, usually expelled at a compara- Particular attention is paid to insure perfect lubrication and exclude dust and grit from the bearings, which are unusually long and large. They are lined with the best babbitt metal, and a large space is left on inner side of journal for the introduction of waste, which absorbs surplus oil and excludes the dust. There is, of course, no strain or wear on the portion of the journal left open for waste, as all the strain on the bearings is exerted in a backward and downward direction, and

finer material; by adding one or more the rolls are set further apart and produce coarse material. When desired an automatic roller feed is supplied with the rolls, which insures a perfectly even and uniform flow and distribution of the material to be crushed. The sectional rings, when worn in the center, can be taken off and applied to the ends, while the end rings, which will not be worn so much, can be put in center, so that the teeth can be worn very evenly, and in case of breakage a new ring can be substituted quickly and at very small cost. The rings are

changeable, as are all other parts of this machine. These rolls have a very large capacity, and are suitable for crushing phosphate rock, gypsum, coal, coke, oyster shells, glass sand, or any tough mate rial, but they are not recommended for extremely hard substances. This machine has been in successful operation a number of years, and has given the best of satisfaction. Four sizes are made namely, 18x15 inches, 18x36 inches, 24x 20 inches and 24x30 inches

These machines are made by the Geo, Cresson Co., Philadelphia and New York, who have fitted up a special department in its extensive plant for the manufacture of all kinds of crushing, elevating and conveying machinery. For further information address C. G. Buchanan, consulting engineer for the Geo. V. Cresson Co. in this department.

Multiple-Spindle Drilling Machine.

Manufacturers utilizing upright drilling machines in their operations are invited to investigate the make of machine presented in the accompanying illustration. This machine is a new design as regards multiple-spindle drilling machines. avoids the expense and annoyance of numerous belts. It provides a means where by a greater range of speed is obtained, and at the same time greater driving power. The friction-driving feature re duces the cost of maintenance to a small percentage as compared with belts. The gears are all guaranteed Bilgram cut. All running parts are finished all over before painting, which ensures perfect balance All shafts and spindles are finished in the



MULTIPLE-SPINDLE PRILLING MA-CHINE.

grinding machine. These machines, well as the other styles of single and mul tiple-spindle machines, are made in the most accurate and thorough manner. The manufacturers will continue to make the belt-driven drills, as many people prefer them. The new friction and gear-driven are furnished in sizes from two to seven spindles, inclusive, and the belt-driven in several styles with one spindle, also two, three and four spindles. Progressive buy ers in this class of machinery are invited to write the manufacturers, Messrs, H. G. Barr & Co., Worcester, Mass., for further particulars and prices on these drills,

Bowen's Oil Cups.

In our issue of April 3 reference was made, with accompanying illustrations, to the Bowen oil cups. These cups are offered to makers of machinery as com prising qualities of efficiency and general satisfaction that are not to be found in any other cups. They are absolutely dust proof and self-closing, also excellently finished and designed. In our former reference the oil cups were erroneously referred to as grease cups and vice vers

The Bowen Manufacturing Co, of Auburn, N. Y., manufactures these cups, making them a specialty, and their manifold merits have created an extensive and large demand. The most progressive machinery builders in the country are adopting the Bowen oil cups, and those not yet acquainted with the perfection of the devices are urged to send for full details.

James A. Trane Gravity System of Heating.

This is a new departure in heating resi dences, flats, stores, office buildings, or any building where low-pressure steam rould be a suitable heating medium.

The advantages of this system over the resent method of steam or hot water are claimed to be numerous. The principal idvantage is the great economy in fuel. which will average at least 25 per cent The reason for this is easily explained. Water boils at 212° F, at the atmospheric essure; hence no steam can be generated in the ordinary steam-heating apparatus until the water in the boiler has reached temperature above 212° F. Then, on the other hand, as soon as the temperature in the boiler falls below 212° F. no heat is given off, as the water has ceas to boil, although there may be fuel enough in the fire-box to burn for several hours without getting any beneficial results.

With the gravity vacuum system it is entirely different, as water boils in a per feet vacuum at 98° F. Although it would be impossible to create a perfect vacuum, it is possible, however, with this system to create a strong partial vacuum, frequently as high as twenty-five inches. In wenty-five inches vacuum water boils at 126° F.; therefore with this system, starting a fire when the system is cold, and a vacuum of twenty-five inches has been established, water will begin to boil and cenerate steam at 126° instead of 212° F. Then, on the other hand, when the fires are allowed to cool down the heat does not cease at 212° F., but a circulation of steam will be maintained until the temperature in the heating system falls as low as 130° to 126°. Hence there is a large gain for the vacuum system.

With this system pressure can be car ried whenever occasion requires it, such as in extreme cold weather. This can be done without any change whatever, except to increase the fire. In moderate weather it is not necessary to overheat as with this system very low temperatures can be maintained while the heating plant is run in vacuum.

Foul Air and Gas.-With the ordinary steam-heating system the air valves continually discharge foul and dangerous es from the radiators into the room. while with the gravity vacuum system not a particle of air is discharged in the rooms. As the entire system is hermetically sealed, there is no escape of air or gas into the rooms.

The vacuum apparatus, or machine for creating the vacuum, is very simple, yet absolute in its operation. There are no valves in connection with it, nor anything else that can get out of order. A mercury seal is used, which will readily admit the air contained in the system to be expelled with the slightest pressure, but will positively prevent its return through itself. Storm Bull, professor of steam engineering at the University of Madison, Wis., made an efficiency test of the system last year, with remarkable results.

James A. Trane of 201 South Fifth street, La Crosse, Wis., is introducing the system, and solicits inquiries from intersted parties.

E. Moreau, 28 Rue de l'Echiquier, Paris, who is interested in trade with the Latin Americas, Africa and the East, writes to be Manufacturers' Record that he desires to get into communication with American manufacturers of cotton piece goods, including domestics, zephyrs, shirtings, ginghams, trouserings, etc

LUMBER.

A complete record of new mills and build ing operations in the South will the Construction Department.] will be for

LUMBER MARKET REVIEWS.

Baltimore.

Office Manufacturers' Record, Baltimore, Md., April 16.

The week under review has been a fairly active one in the local lumber market, and the favorable weather prevailing has contributed largely to the immediate delivery of lumber. The demand from local and out-of-town buyers is improving. and box factories and other woodworking concerns are in the market for various sized lots. Receipts of all classes of lumber are more liberal, and prices are generally very steady at the recent advance The general advance in lumber as com pared with the same period last year will likely reach from \$2.50 to \$5.50 per thousand, and in isolated cases perhaps higher North Carolina pine is holding its own and during the month of March and so far this month the volume of business is said to have been the largest in the history of this industry. Cypress is steady. with a better demand, and some large transactions are reported during the past week. Poplar is still one of the most popular woods, and there is an increased demand, with values firm and a shade In all hardwoods there is a bet higher ter feeling, with the distribution reaching out more extensively. Prices for oak, ash and other woods continue to rule steady, with receipts light and stocks at milling points not excessive. The export trade is quiet; North Carolina pine men have a large domestic trade, and find quicker returns than deals in a foreign market. Hardwood exporters view the situation as more promising in the near future, as stocks abroad are much reduced.

Norfolk.

[From our own Correspondent.] Norfolk, Va., April 14.

The lumber trade in this section is nov of a most encouraging character, and manufacturers and others engaged in this industry predict an unusual volume of business during the spring and summer months; in fact, the present year is expected to show a greater share of prosperity than has been witnessed for some vears past. In the North Carolina pine trade this will prove especially true, as at the moment orders are quite as plentiful as at any month so far this year. demand seems to be more general, and from the North and East and Middle West the inquiry is most decided. For eign exports are consequently falling off, and manufacturers are giving their attention almost entirely to domestic busi With regard to prices there is a very steady tone present, and the pricelist of the North Carolina Pine Association is well maintained. There is not likely to be any further sharp advance. but holders are very firm in their views. and there is considerable difficulty in filling orders, as stocks are running very low in some cases. The local demand is also considerable, as there is much building going on in the city proper and sub urbs. The hardwood business is assuming greater proportions each year, and the volume of transactions indicate important foreign shipments during the spring months. Planing mills and all woodworking concerns are full of business, and are increasing their capacity in many cases. Lumber freights are firm, and vessels of desirable tonnage are offered moderately. The schooner Jennie N. Huddell, 265 tons, was chartered last week to load lumber here for New York at \$2.40. Rates to Sound ports are \$2.50 to \$2.67 ward \$2.75.

Savannah.

[From our own Correspondent.] Savannah, Ga., April 14.

The lumber trade of this port is at pres ent showing unusual activity in all its departments, and from the number of charters recently closed indications point to a steady and substantial business during the spring and summer months. The largest amount of tonnage ever under charter by a single firm here has just been engaged amounting to 11,515,000 feet. The demand from Northern and Eastern ports continues to show remarkable vo and the inquiry for crossties, railroad and shipbuilding timber and other wood products is at present most decided in character. Advices from milling points in the interior are more favorable, and under better weather conditions manufacturers are increasing their output at mills Stocks, however, do not accumulate to any extent, as at the present rate of shipment at ports lumber is going forward in considerable quantities. At Brunswick the market is decidedly brisk, and both the foreign and domestic inquiry is all that could be desired. The presence at Brunswick of foreign lumber agents is significant, and from Cuba, Mexico, Central and South America some good orders have been received. The demand from Spain is also showing considerable improvement, and the crosstie industry active, large orders from Cuba and Mex ico having been received recently. large fleet of vessels have completed their cargoes, and a number of vessels are now due to arrive to load for foreign and coastwise ports. Savannah shipments last week amounted to 2,800,000 feet of lumber and crossties, and the total shipments of wood products for the present month will exceed so far that of any month during the present year. Sail ton nage freights are quiet, with tonnage scarce and rates for desirable vessels firm. Coasting lumber rates are strong, under a good demand and light offering of tonnage. Charters reported are schooner Gladys, 646 tons, from Brunswick to New York with dry cypress at \$4.8715; schooner Iona Tunnell, 1118 tons. from Brunswick to Philadelphia with ties at 1412 cents; schooner B. H. King, 1022 tons, from Fernandina to New York with ties at 151/2 cents.

Mobile.

[From our own Correspondent.]

Mobile, Ala., April 14. The tone of the pitch-pine timber market continues firm, and stocks will soon be absorbed by the vessels already chartered, and future receipts are likely to remain uncertain. Sawn timber when placed upon the market will bring 151/2 to 16 cents per cubic foot, and sales at the latter figure are reported during the past week. Hewn timber is steady at 151/2 to 16/2 cents per cubic foot. Shipments of lumber have been larger than usual during the past week, and the market is active, with a good demand from Cuba and South America. The shipments of lumber for the past week amounted to 2.350. 000 feet, and for the season 58,441,636 feet, against 68,063,541 feet last year. The steamer Voorburg cleared for Liverpool with 11,380 cubic feet of hewn timber, 157,457 cubic feet of sawn timber and 67,724 feet of lumber. The hardwood trade is showing up in a more favorable light as the season progresses, the mahogany business becoming quite an important factor. The Mobile Lumber Co. is a large importer from Cuba and Mexico, and at the company's mills here the logs are sawn and the mahogany lumber shipped to points in the interior. A large

Sic of at

Impi

per per sir

yar

hea

plan

Sou ver; rapi that Pric to it a fa pric wan can a go

the : high orde rega bette The to to feet as pe

LIII Lum at H from

every

her i

Sout

ough Deni intro made mem clusio dent who Hous appla form. lumb

teen ; ber o tion f tion b is any spicuo it is cheer welco

tlemer ciation every for ye Houst and tl their I

splend perity, April

pril 14.

is at pres

all its de-

during the

he largest

harter by

engaged

The de

ern ports

lroad and

bord boo

n charac-

nd unde

facturers

at mills.

nulate to

e of ship-orward in

runswick

and both

ry is all

esence at

cico, Cen

od orders

ind from

cable im

dustry is

and Mex

eted their

are now

eign and

hipments

0 feet of

otal ship-

e present

Sail ton-

e vessels

ted an

n Bruns

press at

with ties ing, 1022

ork with

pril 14.

ber mar

will soon

dy char-

ely to re-

g 151/2 to

es at the

t 15½ to

ments of

sual dur-

et is act

Suba and

of lum-

8.441.636

ist year.

or Liver

nber and

ardwood

avorable

the ma

an im-nber Co.

nd Mex

here the

A large

when

ntly.

Imp

of hardwood lumber was made arday to Liverpool, consisting of rubic feet of oak timber, 9695 cubic et of poplar timber and a lot of 17,002 cubic feet of hewn pitch-pine timber. Stocks of logs of all kinds are light, sales of a lot of pine logs being made last week at \$10. Oak logs are steady at \$8 to \$12 per 1000 feet, cypress at 8 to 151/2 cents per cubic foot, and cottonwood \$4 to \$5 per 1000 feet. Timber freights continue steady, with a moderate offering of desirable tonnage.

Beaumont.

n our own Correspondent.] Beaumont, Texas, April 12.

With the opening of spring weather the yards and planers are making much heavier shipments, and prices are more firm on those lines as a result. The planers are running at night throughout Southeast Texas, and the shipments are very heavy on flooring and ship lap. The inner-finish material is not going quite so rapidly, but that is due simply to the fact that all the yards seemed to have run short on one class and not the other. Prices are up, and there is nothing in sight to indicate that there will be anything of a falling off at any time soon. The manufacturers have stopped asking any higher prices, but when a dealer comes in and wants an order at break-neck speed he can get it a little earlier by paying a little more for it. On ties and timbers there is a good demand, and the prices for ties in the three grades are holding up, with a remarkably strong tendency to go even higher. There are a great many sap-tie orders on the books at \$10; in fact, that is regarded as the prevailing price, and the etter grades are correspondingly higher. The local demand for lumber is sufficient to take the cut of one of the large Beaumont mills alone. It runs to about 2000 feet per mouth, which places Beaumont as perhaps the largest retail market in the South.

LUMBERMEN IN CONVENTION.

State Association Meets at Houston, Texas.

The sixteenth annual convention of the Lumbermen's Association of Texas met at Houston on the 8th inst. Lumbermen from all parts of the State and Louisiana were present, and the sessions were in every respect harmonious, while the lumber industry in all its avenues was thoroughly discussed. President Lingo of Denison called the association to order, introducing Mayor Holt of Houston, who made the address of welcome to the members of the association. At the conclusion of Mayor Holt's address the president called upon the Hon. John H. Kirby, who spoke in behalf of the lumbermen of Houston. Mr. Kirby was enthusiastically applauded when he appeared on the platform. He had been connected with the lumber business in Texas for the past fifteen years, he said, and had been a member of the Texas Lumbermen's Association for that time. He chose this voca tion because he was an optimist. If there is any one great characteristic more conspicuous in the lumberman than another it is his optimism. The lumberman is cheerful, jolly, generous and noble. He vas glad away down deep in his heart to welcome such a magnificent body of gen-tlemen to Houston. He hoped the association would come to Houston en masse every year and make the city its Mecca for years to come. The lumbermen of Houston were alert, honest and genial, and they were always delighted to greet their brethren. Houston was progressing splendidly and rapidly. Only yesterday, he said, the city took a new Holt on prosperity, and it was going to move on now at a rapid pace. (Great applause.)

Of optimism, he said, he could better illustrate his remarks by telling the story of the two toads that fell into a pan of milk. One was a pessimistic toad and the other was bubbling over with optimism The pessimistic toad had no sooner struck the milk till it cried, "Oh, this is too much for me!" and folding its little legs it proceeded to die. (Laughter.) Not much of a lumberman's principles in this. (Laughter.) The other toad was an optimistic toad. He cried, "Oh, I'll not get stuck here!" and began to paddle around. So next morning the milkmaid found a fat, jolly toad ready to hop off a large cake of butter when she appeared on the scene. (Laughter.) That toad represented the lumbermen. (More laughter.)

Heretofore the lumberman had been hampered in Texas, he thought, by lack of capital, but that difficulty was being New roads have entered our forests and are now engaged in them. The lumberman was doing his this development. The share toward this development. lumberman was always in a good humor, always ready to trade, ever expounding optimism and defying the pessimist.

There are some who believe that the forests will all soon be gone; that the song of the saw-mill will be hushed and the ocation of the lumberman, like that of Othello, will be gone. He did not subscribe to such doctrine. He was reared out in the shadows of the pines, and he had studied the forest. By care and attention the fine forests of yellow pine and other valuable trees could be made to re-produce themselves. The lumber industry would never cease to be one of the most important in the world, and the saw would be whirring and the woodsman's axe be plying long after the people now on earth had been crumbled to dust.

At the afternoon session President Lingo delivered his annual address. The secretary and treasurer, Mr. Carl F. Drake, submitted his annual report, giving a comprehensive and elaborate review of the work of the year. The committee on legislation also filed its report. The committee on statistics presented the fol-lowing report: The annual report of the railroad commission of Texas shows that the railroads in that State during the year ending June 30, 1901, handled 5,995,000 tons of lumber, shingles and other forest products, or an equivalent of more than 210,000 carloads of 40,000 feet to the car. The following figures are from the annual report of the secretary of the Southern Lumber Manufacturers' Association for the year 1901: Louisiana cut, 857,000,000 feet; shipments, 841,000,000 feet; on hand, 205,000,000 feet. Arkansas cut, 809,000,000 feet; shipments, 839,000,000 feet; on hand, 214,000,000 feet. Texas cut, 881,000,000 feet; shipments, 958,000, 000 feet; on hand, 165,000,000 feet. The officers elected for the ensuing year were as follows: President, E. N. Lingo of Denison; vice-president, G. W. Owens of Oak Cliff; secretary and treasurer, C. F. Drake of Austin.

Lumber Notes.

The New Jersey Salt Co. of Morgan City, La., is establishing a large shipyard and stave and barrel plant on the Pascagoula river, near Scranton, Miss.

The Auburn Timber Co. of Wilmington, N. C., has been chartered with a capital stock of \$25,000. The incorporators are W. A. Williams, William Latimer and H. G. Latimer, Jr.

It is stated that since January 1 the John H. Kirby Tie Co. of Houston, Texas, has delivered to the Gulf, Colorado & Santa Fe system upwards of 700,000 crossties. The company has a contract to furnish the Santa Fe system about 7,000,-000 crossties.

The Chilhowie Lumber Co., with principal offices at Chilhowie, Smyth county, Virginia, lost its valuable lumber plant by fire last week, together with much valuable lumber. The loss is estimated at

The J. H. Kirby Lumber Co. of Houston, Texas, has sold to the Swift Packing Co, 6,000,000 feet of lumber, to be used in the construction of the Fort Worth packing-houses. The lumber is to be delivered on demand as needed.

The Weldon Lumber Co. of Weldon, N. C., has been chartered, with a capital stock of \$100,000. The incorporators are J. L. Shepherd, Petersburg; G. L. Vincent, Jarratts, Va.; C. A. Shepherd, Richmond, and Selden Goode of Weldon.

The new plant of the Chesapeake Furniture & Woodworking Co. of Norfolk has begun operations. The plant is equipped with modern woodworking machinery, and will manufacture furniture, sash, doors, blinds and other building material.

The plant of the Atlantic Shingle Mills, near Wilmington, N. C., has been com pleted, and commenced operations last week. In a few days the entire factory will be running at its full capacity of 60,-000 shingles a day. Both cypress and juniper shingles will be manufactured.

A sash and door factory is to be put in operation near Orange, Texas, at an early date. The factory will be located on the site of the C. A. Russell Lumber Co.'s mill. Nearly all the machinery is on the ground, and is being put in position. of the capital, \$20,000, has been paid in, and charter applied for.

Messrs. Brobston, Fendig & Co. of Brunswick, Ga., sold last week to Mr. F. M. Snell of Milwaukee and the Ocmulgee Lumber Co. of Lumber City, Ga., 12,000 acres of timber land near Brunswick. The purchasers announce that it is their intention to at once erect a large box factory in the city, and also one of the largest sawmills in that section.

The steady rains of last week caused a 17-foot flood in the Susquehanna river and millions of feet of logs which lined the banks from the big boom at Williamsport, Pa., to the headwaters have been rushing down the river. It is estimated that the boom at Williamsport will contain 58,000,000 feet of logs, fiveeighths of the season's cut, as a result of this freshet.

The lumber business at Scranton, Miss., is showing unusual activity. The sixteen saw-mills and five planers at Moss Point, besides two mills at Scranton and two at West Pascagoula, are running on full time, while the shipyards have all they can do. The British steamship Onslow sailed from Horn Island on the 7th for London, Eng., carrying a cargo of over 2,000,000 feet of lumber.

The Tygart's Valley Manufacturing & Lumber Co, has been chartered with a capital stock of \$150,000, the amount already subscribed being \$125,000. . The incorporators are Edward W. Mealey, Richard H. Alvey, Jr., and Edward M. Allen, Jr., of Hagerstown, Md.; John G. Rouse of Belair, Md., and J. A. G. Allen of Davis, W. Va. The principal office of the company will be at Hagerstown, Md.

The fifteenth anniversary and annual neeting of the Philadelphia Lumber Exchange was held in that city on the 10th inst. The total arrivals at that port for the year amounted to 424,484,000 feet, or nearly 2,000,000 feet more than the previous year, and 40,000,000 feet above the average for the past ten years. The election of officers resulted as follows: President, Edward F. Henson; vice present of being inconvenienced during at Atlantic City on account of the fire. dent, Edward F. Henson; vice-president,

The Norfolk Lumber Co. of Norfolk, Va., recently organized, has been chartered with a capital stock of \$2500, with privilege of increasing it to \$25,000. The officers of the company are James E, Etheredge of Norfolk, president; L. O. Parrish of Fayetteville, N. C., vice-president, and H. W. Johnson of Norfolk, seeretary and treasurer. The company will buy and sell timber lands and manufac-

The thirteenth annual meeting of the stockholders of the Darlington-Miller Lumber Co, of Galveston was held in that city last week, and the following officers elected: A. W. Miller, president; C. H. Moore, vice-president, and C. S. Vidor, secretary and treasurer. The business of the company is in a most prosperous condition, having more orders than can be supplied with the company's mills running night and day.

The tract of land in Louisiana recently purchased by the Great Southern Lumber Co., composed of Buffalo and Baltimore capitalists, recently organized, is about to be developed. Mr. Carnett, a representative of the company, visited New Orleans last week for the purpose of examining the section of timber land purchased, and it is stated that the company intends to construct mills and build railroads where they are needed.

The movement at Charleston last week in wood products was unusually brisk, and the improvement at that port in lumber shipments is decidedly favorable, During the week the following vessels cleared: Steamship Navahoe for Boston with 142,886 feet of lumber; steamship S, V. Luckenbach for Philadelphia with 2,225,000 feet; steamship Egda for Charlottetown, P. E. I., with 2,000,000 feet; schooner John W. Hall for New York with 241,500 feet, and schooner Jose Oliverri with 450,000 feet.

The Clyde Line steamships cleared last week from Jacksonville, Fla., with full cargoes. The Comanche for New York had on, with other cargo, 300,000 feet of lumber, and the Arapahoe 450,000 feet of lumber, 3000 bundles of shingles and other cargo. The Algonquin for Boston cleared with 300,000 feet of lumber, 4000 bundles of shingles, 1200 crossties and other cargo, The schooner Henry Weller cleared for Stonington, Conn., with 350,000 feet of lumber, and the schooner Warren Adams for New York with 140,000 feet. tional shipments reached over 1,200,000 feet.

The semi-annual meeting of the Retail Lumber Dealers' Association of Mississippi was held on the 8th inst, at Jackson, President Tucker presiding. The president, in his address, stated that the retail lumber trade was in a more satisfactory condition now than for some Interesting papers were read by Mr. E. W. Buron of Pickens, Mr. N. H. Alexander, and Mr. Frank H. Bryan, of New Orleans. The following officers were elected: B. A. Tucker, president; Senatobia, Miss.; S. L. Hearn, vice-president, West Point, Miss.; W. G. Harlow, secretary and treasurer, Yazoo City, Miss.

Mr. C. B. Carter of Knoxville, Tenn., secretary-treasurer of the Southern Hardware Jobbers' Association, announce that the recent disastrous fire at Atlantic City will not interfere at all with the program for the meeting there of the association as originally intended. The hotel which has been selected as official headquarters was not at all damaged by the fire, and Mr. Carter writes that manufacturers and others who contemplate attending the convention need have no fear of being inconvenienced during their stay

CONSTRUCTION EPARTMENT.

THE MANUFACTURERS' RECORD seeks to verify every item reported in its Construction Department by a full investigation and complete correspondence with everyone interested. But it is often impossible to do this before the item must be printed, or else lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimination, and they will avoid accepting as a certainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that

*Means machinery, proposals or suppl are wanted, particulars of which will be found under head of "Machinery Wanted."

In correspondence relating to matters re-ported in this paper, it will be of advantage to all concerned if it is stated that the inforation was gained from the Manufacturers

It often occurs that the organization new company in a town is not known by the postmaster, and hence letters addressed to the company are returned marked "no known," The Manufacturers' Record re ports the first organization of all companies and our readers, in seeking to get into com-munication with them, should be very care ful in deciding how to address them, and it is often advisable to add the names of o rporators as an aid to the post-

ALABAMA.

Alexander City—Bottling Works,—A. S. Cotton and M. Wilson will establish bottling

Birmingham-Iron-ore Mines,-Songo Min ing Co., recently reported incorporated by Morris Adler and others, will operate iron-ore mines developed some time ago.

Birmingham—Oil and Gas Wells.—Reld's Gap Oil, Gas & Mining Co. has been incorporated for development of oil, gas and mineral lands, with capital stock of \$100,000, by Rob R. Zell, John L. Burns, J. R. Ada

Birmingham—Plaster Works,—W. M. Orr, general manager of Indiana Wood Fiber Plaster Co., is investigating with a view to establishing \$500,000 plant in the Birmingham

Birmingham-Oil Wells.-St. Stepher Co. has been incorporated, with capital of \$25,000, to bore for oil, by J. P. Ross, Culpep-per Exum, B. F. Roden, Thomas S. Plowman

B'rmingham—Phnrmacy,—Chartered: City Hall Pharmacy Co., with capital of \$3000, by Sidney H. Baker, Richard B. Hunter and Milton E. Godbey

Birmingham — Steam Bakery. — Electric Steam Bakery Co. has been incorporated, with capital stock of \$10,000, for conducting and enlarging bakery (established). W. D. Lane is president; H. M. Dozier, vice-president; R. S. McCarty, secretary, and C. S. Simmons, treasurer.

Birmingham-Furnace. Steel Co., Chicago Stock Exchange Building, Chicago, Ill., states that it expects to blow Chicago, III., states that it expects to blow in its Thomas (Ala.) furnace in about ter days, as lately reported, but has not in im-mediate prospect the opening up of new mines or making other improvements; Chas E. Graves, assistant secretary.

Birmingham-Terra-cotta-pipe Plant. pany will be organized, with capital stock of \$100,000, for establishment of a terra-cotta-pipe plant. Names of those interested will be announced later.

Birmingham—Sewerage,—Jefferson County Sanitary Commission will advertise for bids (to be opened May 20) for construction of two sanitary sewers, in accordance with plans of Engineer Julian Kendrick.

Courtland-Cotton-oil Mill and Fertilizer It is reported Factory.—It is reported that a \$30,000 com-cany will be organized for establishment of cottonseed-oil mill, and probably a ferti-zer factory. T. W. Pratt of Huntsville, lizer factory. T. W. Pra

Ensley-Electric Plant.-Central Light & Power Co. will, it is said, enlarge its plant. Ensley-Gas Plant.-Chas. A. Nolan has

applied for franchise for erection of gas

Huntsville-Road Improvements.-Madis nty will make extensive turnpike invenents. Address S. M. Stewart, county

etric-light Plant.-Marion Ele tric Light & Power Co., reported recently as having received ten years' franchise for lighting city, has organized, with W. H. England, president; T. H. Kemp, secretray,

Mobile-Glass-jar Factory.-Dr. William Sindorf will erect factory for manufacture of his patent air-tight glass jar, as recently reported. A. McCrary, 63 St. Michael street, the architect."

Mobile-Fish and Oyster Company .- Mobile Fish & Oyster Co. has increased its capital stock to \$50,000 and ordered five new smacks.

New Decatur-Planing Mill.-E. C. will rebuild his planing mill, recently burned s of \$5000

Opelika-Cereal Food Mill.-F. E. Ke president of Battle Creek Food Co. of Battle Creek, Mich., is investigating with a view to establishing a mill to manufacture cereal oods at Opelika.

Pell City—Cotton Mill, Cottonseed-oll Mill and Ginnery.—Pell City Manufacturing Co., reported incorporated, etc., last week with \$500,000 capital, will erect mill building three stories high, 150x500 feet, to contain 12,000 spindles, etc., for making denims; also will erect cotton ginnery and cottonseed-oil mill. Ramsey-Reilly Engineering & Construction Co. of Birmingham, Ala., made preliminary surveys for site. Boston architects are pre-paring plans. Geo. W. Pratt, 427 Prudential Building, Atlanta, Ga., is president.

Piedmont-Furnace,-It is reported that he Alabama & Georgia Iron Co., Cedartown, ia., contemplates building a furnace near its ore properties at Pledmont.

ing Co., reported recently to build additional mill of 10,080 spinning spindles and 4080 twistmill of 10,080 spinning spindles and 4000 twist-ing spindles, will erect two-story building 102x190 feet to contain the textile machinery. Architects are now preparing plans. Ma-chinery, all except power plant (of 400 horse-power), has been ordered. A. G. Thacher, 1415 Delaware avenue, Wilmington, Del., is

Prattville-Electric Light.-W. F. Wilkin son has made proposition town with electric lights.

Prattville-Oil Mill and Fertilizer Facto Allen Northington, M. S. Wadsworth, C. Smith, C. E. Thomas and others have org ized Autauga Oil & Fertilizer Co., with cap ital stock of \$50,000, for erecting and oper ting cottonseed-oil mill and fertilizer factory

Wetumpka-Telephone System.-It is re rted that W. L. Lancaster will organize upany for constructing telephone system

Fort Smith-Stone Company.—Chartered: Monumental & Cut Stone Co., with capital of \$5000, by Nicholas E. Bolle, J. A. Hoffman. ude Hoffman and others

Helena-Iron and Tube Works,-Alabama Tube & Iron Co. (Birmingham, Ala.) has in-creased capital stock from \$150,000 to \$200,000 to complete extensive improvements now under way at Helena.

Little Rock—Cotton Compress.—Arkansas Roundlap Bale Cotton Co, has amended char-ter, increasing capital stock from \$20,000 to \$300,000, and for enlarging the scope of its

Mena - Construction. - Chartered: R. M. with capital of \$100,000, by R. M. Quigley, C. C. Weem and F. N. Hancock.

Morrillton-Gln.-Chartered: Farn with capital of \$5000, by R. A. Dowdle, ident: Henry James, vice-president; O. O. Scroggins, secretary-treasurer.

Star City-Telephone Company.-Star City Telephone Co. has been incorporated, with capital of \$10,000, and H. D. Palmer, president; W. J. Savage, vice-president; Isaac Bankston, secretary, and J. G. Atkinson,

Watson—Mercantile.—Poage-Daugherty Co has been chartered, with capital of \$10,000 by A. S. Dougherty (president) and others.

FLORIDA.

Apalachicola - Water-works. - City con templates the construction of water-works to cost about \$3000. G. W. Hinsley, city clerk, Box 3, can be addressed.4

Egmont-Water-works.-Geo. H. Crapts of Atlanta, Ga., has been awarded contract for works at government artillery post.

Myers-Water-works.-City will vote April 15 on issuance of \$1500 of bonds for water works. Address "The Mayor."

Ocala-Phosphate Lands.-Thomas idge, Benjamin J. Potter and others have in corporated Union Phosphate Co., with capital of \$30,000, for development of phosphate

ola-Cotton-oil Mill.-Southern Cot

Tampa-Mercantile.-Chartered: Hillsbore Grocery Co., with capital of \$20,000, by Law rence J. Cooper and others.

GEORGIA.

Albany-Cotton-oll Mill.-Georgia Cotton il Co. will expend \$15,000 in improving its

Athens-Cotton-oil Mill, Fertilizer Fa d Ginnery.—W. M. McKenzle and A. M. obbs of Atlanta, Ga., and J. C. Cooper of Athens will form a \$100,000 corporation for stablishment of large cottonseed-oil mill. fertilizer factory and ginnery.

Atlanta-Chemical Laboratory.-Robert E. Gramling Laboratory has been incorporate as recently reported, and has building No. completed. A second laboratory will be co structed, for which Collier & Brown will be architects; building to be three stories, slow burning construction, cement floors, etc., and company has not as yet decided whether it will build itself or by contract. Plant com-plete will cost \$15,000. Address Robert E. Gramling, 1427-8 Empire Building.*

Augusta-Brick Works.-Frank R. Clark, Clarence E. Clark, E. J. O'Connor and others have incorporated Georgia Vitrified Brick & Ciay Co., with capital stock of \$100,000, and privilege of increasing to \$500,000, for developnent of clay mines, manufacture of brick, ete

Brunswick-Box Factory F. M. Snell of Milwaukee, Wis., and the Oc mulgee Lumber Co. of Lumber City, Ga., have purchased 12,000 acres of timber lands near Brunswick, and will erect large saw-mills and box factory at once.

Cave Springs—Fly-screen Factory.—Frank Wright will manufacture his patent fly-screen.**

Clarksville - Furniture Factory. ville Tobacco Manufacturing Co. has made proposition to Northern parties for establishment of furniture factory.

Columbus-Bagging Factory.-J. Friedlan der & Co., whose plant was recently damaged by fire to extent of \$12,000, have secured build-ing and will install machinery to continue the manufacture of bagging.

Dalton-Electric-light Plant.-Town will build \$10,000 electric-light plant, as recently reported, but has not awarded any contracts eering the plant nor for machinery; Julian McCamy, mayor.

Decatur-Electric-light Plant.-W. J. House on has franchise for erection of electric

Elberton-Electric-light Plant.-B. M. Hall, civil engineer, Atlanta, Ga., is preparing re port on improving electric plant at Elberton.

Fort Valley-Cotton-oil Mill.-W. L. Houser. J. P. Heath, E. L. Bryan and others have in-corporated Fort Valley Oll Co., with capital of \$25,000, for erection of cottonseed-oil mill. for which no architect nor engineer has been employed and no contracts for machinery

Hogansville-Brick Works.-Trimble Brick Co., reported lately as incorporated, has plant already in operation.

Macon-Packing Company.—Sula Packing o, has increased capital stock from \$100,000

Statesboro-Electric-light Plant and Water works.—It is reported that Statesboro Water & Electric Co. will be granted franchise for water-works and electric-light plant.

Statesboro—Bed-spring Factory.—Joe De fedicis and S. A. Kirkland of Thomson, Ga., will establish a bed-spring factory at States boro

Wayeros Shirt Factory .-Manufacturing Co. will extend its busin by the manufacture of shirts and drawers

Wayeross—Cigar Factory.—Company has een organized with capital of \$6000 for erection of eigar factory. Geo. R. Youmans president; W. W. Sharpe, vice-preside and Geo. R. Brinson, secretary-treasurer.

KENTUCKY.

Bakerton—Oil and Gas Wells.—Bakerton Oil, Gas & Mining Co. has been incorporated, with capital stock of \$20,000, by J. M. Thomas and J. P. Hastings of Cincinnati, Ohlo, and F. H. Stephens of Bradford, Pa.

Corydon-Water-works.-G. C. & J. W. Doolittle have contract at \$15,788 for construction of city's proposed water-works.

Frankfort — Oil Wells. — Kentucky-Knounty Oil & Gas Co. has been incorporate with capital stock of \$100,000, for develop ment of 4000 acres of oil lands in Knox county which it has under lease. Judge Thomas Paynter is president; Judge James H. Hazelroog, vice-president.

Georgetown - Lumber Company. Lumber Co. has been incorporated, with capital stock of \$25,000, by Gco. H. Allen, A. K. Hawkins, O. D. Courtney and others lealing in lumber, building materials, etc

Kentucky-Coal and Timber Lands, etc.-J. S. Stearns & Co. of Ludington, Mich., have purchased large tracts of coal and timber lands in Kentucky and engaged W. T. Cul-ver of Ludington, Mich., chief engineer in ver of Ldungon, Mich., Chief engineer in charge, and Wm. A. Kuine of Coolidge, Ky, assistant. Contract for mining plant, etc., has been awarded to Southern Construction Co. of Harriman, Tenn. For full particulars address Engineer Culver.*

Lawrenceburg-Furniture Company.stall Furniture Co. has increased capital from \$12,000 to \$30,000.

Lexington-Power-house. W. A. Wood, chief electrical engineer Blue grass Consolidated Traction Co., is preparing plans for company's proposed \$800,000 pe

Louisville—Drug and Chemical Company.— J. D. Baldwin and W. E. Turner of St. Louis, Mo., have purchased and will operate the plant at Louisville of the Southern Phar-macal & Chemical Co.

Louisville—Oil Wells.—Judge J. M. Be L. H. Bush and W. T. Ogden of Winche Judge J. M. Benton Ky., representing Clark County Oil & Devel opment Co., has purchased and will de 4000 acres of oil lands in Clark, Montgo and Powell counties.

Louisville-Brick Works.-Chartered: Jefferson Brick Co., with capital of \$900

Monticello-Oil Wells,-Banner Oil Co. with capital stock of \$50,000, has been incorporated by F. C. Cluxton, C. C. Kimball, John A. Hunter of Bradford, Pa., and others.

Paducah-Separating Plant.-It is reported that B. L. Pettigrew and T. C. Garrett of New York are investigating with a view to establishing a mill for separating the ingre dients of ore

Stanford-Oil and Gas Wells,-Lincoln Oil Gas & Mineral Co., with capital of \$20,000, has been incorporated by J. T. Short of Louisville, M. S. Burgham of Stanford and

Crowley-Paper Mill.-A. K. Smith, paper manufacturer, of Pensacola, Fla., is investi-gating with a view to establishing a plant at Crowley.

Franklin-Oil Wells, etc. People's Fuel Oil Co., Limited, has been incorpo capital of \$50,000, for operating oil wells, oil pipe lines, etc. F. B. Williams is president; Lewis S. Clarke, vice-president; John N. Pharr, secretary-treasurer.

Homer—Cotton-oil Mill.—Homer Cotton Co., Limited, recently reported, has award contract for installation of its cottonseed mill to the Cardwell Machine Co. of Rich mond. Va.

Jennings-Oil Wells,-Calcasieu Land Oil Co, has been incorporated, with capital of \$25,000, for develor nt of oil w David Mahaffy, G. H. Morse, F. F.

Lake Charles—Irrigation Canal.—Calcasieu & Mermentou Canal Co. has filed charter capital stock \$25,000, and L. Kaufman, presi-

are N Lat wit

& H

and

Ba Bau

Bro

Ba City Ba Owe

Ba

Wall

tensi Ba ing M steel stock a 10-i lienr

will twen dent-Mary ture capit Cur Mary chise in Cu

Hag Comp ufact H. At Was

dent; H. B. Milligan, secretary, and H. C. Drew, treasurer; purpose, to construct irrigation canal ten miles long.

Lake Charles—Furniture Company.—Welch Furniture Co. has been incorporated, with capital of \$5000, by A. E. Bell, A. R. Miller, Phillp Coverdale and others.

New Orleans—Land Improvement.—J. B. Alexander, James M. McLoughlin, Oscar Schreiber and others have incorporated Carrellton Land & Improvement Co., Limited, with capital stock of \$50,000, for dealing in and improving real estate.

and improving real estate.

New Orleans—Brewery.—Security Brewing
Co. will erect new plant at a cost of \$30,000
to replace one recently burned.

New Orleans—Candy Factory.—A. W. Berdon, A. J. Nelson, T. D. Stewart and others
have incorporated Nelson & Berdon Candy
Co., Limited, for the manufacture of candy,
etc.; capital stock is \$50,000.

New Orleans—Pulp Mill.—New Orleans Bagasse Pulp & Paper Co. has been incorporated, with capital stock of \$2,000,000, for manufacture of pulp out of sugar-cane as it comes from the mill. Incorporators include George W. Murch, Samuel V. Woodruff of Boston, Mass.; Louis A. Burleight and Jos. Williamson, Jr., of Augusta, Maine.

Williamson, Jr., of Augusta, Maine.

New Orleans—Lumber Mills, etc.—Great Southern Lumber Co., organized several months ago for operating in Louisiana and Mississippi, has purchased 200,000 acres of timber lands in Louisiana, and will erect nills and construct railroad for developing the property. A. B. Carnett of Ansonia, Pa., and James Whalen of Chippewa Falls, Wis., are representatives of company.

New Orleans—Oil and Gas Wells, Mineral Lands, etc.—New Orleans Oil & Mining Co., with capital stock of \$1,000,000, has been incorporated for development of oil and gas wells, mineral lands, etc. Thomas J. Woodward is president; Wm. H. Byrnes, first vice-president; Thomas W. Dyer, treasurer, and others.

others.

New Orleans—Oil Refinery, etc.—Preston F. Hall, John J. Reilly, John C. Wickliffe and others have incorporated United States Refining Co., with capital stock of \$5,000,000, for refining petroleum and other oils.

Rayne—Electric-light Plant and Water-works,—City will vote May 20 on issuance of \$.0,000 of bonds for electric-light plant and water-works, previously mentioned. Address The Mayor.'

MARYLAND.

Baltimore—Contracting.—Chartered: Lauer & Harper Co., with capital stock of \$50,000, to carry on general contracting business, by W. J. Lauer, Isaac C. Harper, Chas. S. Watts and others.

Baltimore — Art-glass Works.—Chartered:
Baumstork Art-Glass Works, with capital
stock of \$20,000, by Gustav Baumstork, H. G.
Brown, G. Wilmer and others.
Baltimore—Garbage Crematory.—Frederick

Baltimore—Garbage Crematory.—Frederick W. Feldner, representing a syndicate, has re-ceived contract at \$147,300 for disposal of city garbage; plant will be erected in accordance with plans and specifications prepared by City Engineer E. S. Fendall and Commis-sioner Iglehart.

Baltimore—Cold-storage Plant.—Baltimore Cold Storage Co. has had plans made by Owens & Sisco for erection of three addi-tional stories to its building.

ional stories to its building.

Baltimore — Wallpaper Plant. — Maryland Wallpaper Co., recently organized with capital stock of \$50,000 by C. Wharton Smith, Geo. A. Smith and Stuart S. Janney, for manufacture and sale of wallpaper, will extensively enlarge and improve the plant of the old Conowingo Wallpaper Co.

Baltimore—Rolling Mill.—Baltimore Rolling Mill Co., for manufacture of bar iron and steel, has been incorporated, with capital stock of \$200,000. Company will build at first a 10-inch and an 18-inch train for an annual output of 20,000 to 25,000 tons of bar metal. Henry Wehr, Pratt and Frederick streets, will be president, and Chas. G. Phillips (for twenty years with the Diamond State Steel Co. of Wilmington, Del.) will be vice-president-treasurer.* dent-treasurer.

Belair—Brick and Tile Works.—Chartered: Maryland Art Brick & Tile Co., to manufac-ture bricks and other articles of clay, with capital stock of \$300,000.

Cumberland—Telephone System.—Western Maryland Telephone Co. has received franchise for establishing an independent system in Cumberland.

Hagerstown—Manufacturing and Lumber Company.—Chartered: Tygart's Valley Man-ufacturing & Lumber Co., with capital stock of \$150,000, by Edward M. Allen, Jr., Richard H. Abney, Jr., Edward M. Medley and others.

Washington, D. C .- Electric-light Plant, etc.-I. P. Hall. 22 Thomas street. New York. has contract at \$13,500 for electric plant at United States Soldiers' Home pumping sta-tion, previously reported.

MISSISSIPPI.

Coles-Cotton Gin.-R. E. Williams will rect cotton gin.

Ittabena—Cotton-oli Mill.—Ittabena Cotton Oli Co, has been organized, with capital of \$75,000, to erect cotton-oli mill. P. Cohen is president; J. H. Godsey, secretary-treasurer, and J. M. Phillips, general manager.

North Carrollton—Cotton-oil Mill.—Carroll County Oil Manufacturing Co. has been incorporated, as recently reported, for erection of a cottonseed-oil mill, contracts for which have not been let. Address T. W. Sullivan.*

Pickens—Cotton-oil Mill.—Company with capital stock of \$45,000 has been organized with W. S. Gordon, president, for establish-ing cottonseed-oil mill; contracts for building

or machinery not awarded.

Scranton—Stave Mill, Barrel Factory, etc.

New Jersey Salt Co. of Morgan City, La., is establishing shipyard, stave and barrel plant

MISSOURI.

Ash Grove—Lead and Zinc Mines.—Florissant Development Co., reported during the week as incorporated for development of properties at Ash Grove, takes over eighty acres of fully developed mining land in Green county, and proposes to install a mill of 100 tons capacity per ten hours; no contracts have as yet been let for improvements or machinery. Address F. H. Littlefield, president.

Carthage—Water-works,—It is said that W. D. Boyer, Connell Building, Scranton, Miss., will construct works at Carthage, consisting of 2,000,000-gallon pump, 2,000,000-gallon filter, four miles of four-inch to 16-inch mains, res-

Hannibal—Foundry.—Treat Manufacturing Co., manufacturer of car wheels, has pur-chased site and will erect combined iron and concrete building for enlarging its wheel

works.

Kansas City — Rice Company. — Missouri
Rice Co. has been incorporated, with capital
stock of \$100,000, by B. D. Hurd, W. H. Calvert, R. E. Holloway and others.

Kansas City—Machine Company.—Chartered: Missouri Illustrated Machine Co.,
with capital of \$9000, by H. S. Halbert, J. A.
Brubaker and G. D. Ferguson.

Odessa—Mercantile.—Chartered: Holloway Mercantile Co., with capital of \$5000, by F. A. Holloway and others.

Poplar Bluff-Stave Mill.-Lowell M. Pal-mer will rebuild his stave mill, previously burned.

Savannah – Implement Company.—Savannah Implement Co. has been incorporated, with capital of \$25,000, by B. L. Ralph, W. B. Cobb, J. L. Scudder and others.

Cobb, J. L. Scudder and others.

St. Louis—Canal, Electric-power Plant, etc.
Missouri & Merrimac River Water Co. proposes the construction of a canal twenty-two
and one-half miles long for connecting the
Missouri and Merrimac rivers to furnish electric power for commercial purposes; 20,000
horse-power would, it is said, be available.
James R. Waddill and James E. Hereford,
attorneys for company, have applied for perattorneys for company, have applied for permission to construct the canal across certain county roads. R. D. O. Johnson is engineer in charge of plans.

Sweet Springs—Flour Mill.—Sweet Springs Flouring Mills, owned by J. J. Jones and R. Sam Haynes, recently burned at a loss of \$47,000, will be rebuilt.

NORTH CAROLINA.

Barnard—Broom Factory.—C. A. Nichols contemplates establishing a broom factory in connection with the spoke and handle factory to be erected.

Burlington-Mercantile.—Chartered: F. L. Williamson Co., with capital stock of \$100,000, by F. L. Williamson and others.

Donnaha—Cross-arm Factory.—W. L. Fleming will erect cross-arm factory.*

ing will erect cross-arm factory.*

Fayetteville — Bleaching and Finishing Plant.—Union Bleaching & Finishing Co. has been incorporated (under New Jersey laws), with capital stock of \$2,500,000, to bleach, dye and otherwise finish textile goods, etc., and will establish plants throughout the South, locating the first one at Fayetteville. Jas. B. Duggan is president; B. N. Duke of Durham, N. C., vice-president; Messrs, Duggan and N. C., vice-president; B. N. Duke of Purnam, N. C., vice-president; Messrs. Duggan and Duke, Anthony N. Brady and Thomas F. Ryan of New York city, W. A. Erwin of Durham, N. C., and Samuel A. Beardsley, directors. Address vice-president at Dur-

Fayetteville—Silk Mill.—Ashley & Bailey
Co. (New York office at 111 Spring street)
will build another silk mill; present plant

has 15,000 spindles for spinning, and new plant will have looms for weaving.

Fayetteville—Cottonseed-oli Mill,—Company represented by F. K. Borden of Goldsboro, N. C., will establish cottonseed-oll mill at Fayetteville.

Fayetteville.
Franklin-Locust-pin, etc., Factory.—N. S.
Thomas, Porter Dunlap and Chas. M. Baume
have incorporated Carolina Locust Pin &
Mica Co., with capital stock of \$15,000.
Greensboro — Medicine Factory. — Cincho
Company has been organized, with capital
stock of \$50,000, for manufacturing a nerve

High Shoals-Bridge.-Iron bridge will be constructed, as recently reported; to be double track, 16 feet wide and 300 feet long, made in two sections. Address A. O. Kale.

Maxton—Development Company.—McKin-non Development Co, has been incorporated, with capital of \$50,000, by A. J. McKinnon, E. M. Williams, E. F. Murray and others, for dealing in real estate, etc.

Oxford—Knitting Mill.—H. M. Shaw and

associates contemplate establishing a knit-ting mill.*

Rocky Mount—Brick Works.—Chartered: Rocky Mount Brick Co., with capital of \$20,000, by J. C. Briswell and others.

Salisbury—Cotton Mill.—Kesler Manufacturing Co. will increase capital from \$125,000 to \$187,500 for the erection of a weaving mill of 300 looms to manufacture the product of the present 11,232 spindles. S. W. Cramer of Charlotte, N. C., Is engineer.

Vanceboro — Transportation. — Vanceboro Steamboat Co. has been Incorporated, with capital of \$5000, by W. E. Brown, J. B. Harvey, A. M. Williams and others.

Walkertown—Overall, etc., Factory.—J. W. Martin, J. C. Hammock, Jacob Huls and R. H. Flynn are incorporators of Martin Manufacturing Co., reported during the week sincorporated, with capital stock of \$25,000, for manufacture of overalls, suspenders, etc. Company has plant established, and will in-crease capacity to fifty dozen suspenders per day.*

Weldon-Lumber Company.—Weldon Lumber Co. has been incorporated, with capital stock of \$100,000, by J. L. Shepherd of Petersburg; G. L. Vincent, Jarratts, Va.; C. A. Shepherd of Richmond, Va., and Seldon Goode of Weldon.

Goode of Weldon.

Wilnington—Machine Shops.—George T.
Leach, W. B. Walling, J. M. Russell and
others are incorporators of Mutual Machinery Co., reported during the week as incorporated, with capital stock of \$25,000, for
manufacture of machinery.

Winston-Salem—Tobacco Company.—Whit-aker-Harvey Tobacco Co. has been incorpo-rated, with Mr. Whitaker, president, and Mr. Harvey, secretary. Plant is in operation.

SOUTH CAROLINA.

Aiken-Planing Mill.-W. F. Dobey will rect planing mill and carpenter shop.

Charleston — Paint and Cil Company.—
Charleston — Paint and Oil Company.—
Chartered: Leland Moore Paint & Oil Co.,
to manufacture and deal in paints, oil, etc.,
by Leland Moore, R. S. Whaley, John B.
Adger and W. H. Mixon. Capital stock is

Clio-Cotton-oil Mill.-E. Sternberger con-templates erecting cottonseed-oil mill, and will award contracts shortly.

Spartanburg—Cotton Mill.—Arch B. Calvert, lately reported as organizing cotton-mill company, has incorporated Drayton-Mills, with capital stock of \$250,000. Other in-corporators are John B. Cleveland, M. F. Floyd, W. A. Law, W. E. Burnett and A. L. White.

TENNESSEE.

Crab Orchard — Handle Factory.— Philip Wheat will establish factory for manufac-turing axe handles, as recently reported; ca-pacity will be 260 dozen per day; plant will be removed from Putnam county.

Jackson — Mercantile, — Chartered: Talla-ferro Jewelry Co., with capital stock of \$10, 000, by S. R. Robertson and others.

Jellico-Road Improvements and Bridge.— Campbell county will issue \$100,000 of bonds for road improvements and for constructing four steel bridges to cost \$1500 each. Address "County Clerk."

Knoxville-Woolen Mill.-Knoxville Woolen Mills is replacing old narrow looms with ninety new broad looms. Knoxville—Cotton Mill.—Knoxville Cotton

Mills' new looms (reported last week) will number 200.

Lincoln County—Oil Wells.—Tennessee Oil, Gas, Mining & Manufacturing Co., organized recently, has begun boring for oil on its 7000 acres of land in Lincoln county; has capital stock of \$150,000. Address care T. A. Shelton,

Mayland—Planing Mill.—J. E. Taylor and ohn Willbanks will establish a planing mill.

McKenzie — Water-works. — City contem-plates constructing new system of water-works; D. A. Benkhalter, chairman water committee.

Memphis—Ice and Cold-storage Plant.—Citi-zens' Ice & Cold Storage Co. has been incor-porated, with capital of \$10,000. John Craig is president; W. A. Owen, secretary-treas-

Memphis-Wagon Factory.—Bodley Wagon Co. of Staunton, Va., will remove its plant to Memphis, as lately reported, and will erect new buildings, etc.

Memphis — Heating-apparatus Works.— Smart Heating Co. has established its plant at 839 Estival Place, Memphis, having re-cently been burned out at Carbondale, Ill.

Mt. Pleasant—Phosphate Mines.—Virginia-Carolina Chemical Co., Richmond, Va., has purchased and will operate the properties of Howard and Ridley phosphate companies at Mt. Pleasant.

Mt. Pleasant.

Nashville — Fertilizer Works. — Federal
Chemical Co. of Louisville, Ky., previously
reported to erect large plant at West Nashville, has awarded contract for erection of
two main buildings at \$42,000; fertilizer building will be 180x40 feet, and acid chambers
300x80 feet; both buildings of brick and wood.

Newport-Bridges.-Cocke county court has Newport-Bridges.—Cocke county court has decided to construct four bridges—new bridges at Del Rlo and Bridgeport and rebuilding of structures at Newport and Oldown, calling for four entirely new steel bridges; cost \$40,000. Address "Clerk of Cocke County Court."

Cocke County Court."*

Ozone—Coal Mines and Coke Ovens.—Chicago-Tennessee Coal & Coke Co. recently perfected organization with David S. McMullen, president; H. J. Hanford, vice-president; W. M. Green, secretary, and Roger B. McMullen, treasurer, all of Chicago. Bonds to the amount of \$100,000 are being issued for development purposes, and arrangements are being made for opening coal mines and construction of coke ovens, etc. Main offices are at 125 La Salle street, Suite 800, Chicago. Address treasurer. dress treasurer.

aress treasurer.

Rockdale—Iron Furnace,—J. J. Gray, Jr., of Sheffield, Ala., has purchased Rockdale furnace and will overhaul it at once, but will not enlarge it; will pet in blast about June 10.

not enlarge it; will pet in blast about June 10.

Springfield—Fertilizer Factory.—Singer &
Johnson Fertilizer Co. of Nashville, Tenn.,
has purchased factory property in Springfield, and will equip it as a large fertilizer

TEXAS.

Bay City-Mercantile,-Le Tulle Mercantile Co. has increased capital from \$25,000 to \$50,000.

850,000.

Bay City—Irrigation Canals, Rice-land Cultivation, etc.—M. D. Chilson of Randolph, Neb., has purchased for himself and associates about 25,000 acres of land on each side of the Colorado river at about \$350,000. Their intention is to construct irrigation canals, colonize the lands with rice farmers and otherwise fully develop the property.

Beaumont - Furniture Company. - Globe Furniture Co. has been incorporated, with capital of \$20,000, by Jake Davis, H. M. Las-ker and H. C. Kahn.

Rer and H. C. Kann.

Beaumont—Oil Wells.—Vernon C. Fry, Geo.
W. Videau, Frederick H. Norris and others
have Incorporated Cadillac Oil Co., with
capital stock of \$450,000.

Beaumont—Hardware and Mill Supply.— Simmons Hardware & Mill Supply Co, has in-creased capital from \$10,000 to \$20,000.

Beaumont—Oil Wells.—Henry County Oil Co. has been incorporated, with capital stock of \$150,000, by Dr. J. Headland of Galva, Ill.; S. J. Sharp, J. H. Stewart of Kewanee, Ill., and others.

Brenham-Packing-house.-A. Kessling will erect packing house with capacity of 100 hogs

per day.

Brenham—Cotton Mill.—Brenham Cotton
Mills, reported organized last week with
\$150,000 capital, will build a 5000-spindle and
160-loom plant. D. C. Giddings, Jr., can be
addressed.

Canyon City—Mercantile.—Chartered: Gober, Hume & Kenyon, with capital of \$20,000, by W. C. Kenyon and others.

Cleburne—Cotton-oll Mill.—Stock company with capital of \$50,000 has been organized for establishing cotton-oll mill. D. E. Waggoner interested.

Dallas — Packing Company. — Armstrong Packing Co. has increased capital stock from \$250,000 to \$500,000.

Denison—Mercantile,—Chartered: Denison Grocery Co., with capital stock of \$190,000, by W. M. Lingo and others.

Deport-Oil Mill.-Deport Cotton Oil Co. ame of company reported lately as organiz-

ny has or erec-nans is esident, rer.

002.

kerion orated, Thomas io, and

J. W. or con-rks. y-Knox evelop James

Penn th cap A. K. rs, for etc. etc._J. ., have timber T. Cul-

iculars -War-capital

Blue-paring Loui te ti

Devel-levelop comery : Jef-

Phar-

others ported rett of

\$20,000, of Lou-d and

plant

In Oil.

Fuel I, with dls, oil sident; hn N.

eed-oil

and & capital s, etc., Morse

presi

ing to install cottonseed-oil mill; contract has been awarded for two-press mill with ca-pacity of forty tons per day; J. H. Moore secretary.

El Paso-Furnace.-B. L. Berkey will erect a 50-ton concentrating plant (as recent); ported) near El Paso, for the production pig-iron for foundry purposes; organization company has not been perfected.

t Worth-Land Improvement.-North Worth Townsite Co, has been incorpowith eapital stock of \$500,000, by Jos gins, L. V. Niles and W. B. King

Gonzales - Cotton Compress. - American otton Co. (New York) shall probably build roundlap-bale plant at Gonzales (as r reported), the work to be under the di of David Trainer, assistant operating man ager, Memphis, Tenn.

Houston-Machine Shops.-Mis sns & Texas Railway system will build new shops at Smithville, of brick and stone, 250x 260 feet, and install new machinery; A. A. Allen, general manager, St. Louis, Mo.

La Grange-Cotton Mill.-Board of Trade deavoring to organize company cotton mill.

-Rice Mill.-Rice mill with capacity of 1000 barrels per day will be erected. Jon than Lane of Houston, Texas, is interested.

Marshall-Building Company.-Chartered: lk Building Co., with capital of \$15,000, by Elk Building Co., with car Holman Taylor and others.

Plano-Cotton-oil Mill.—Chartered: Plano Cotton Oil Co., with capital of \$35,000, by J. H. Bowman, T. C. Jasper, R. L. Stevens and

Rock Island-Cemetery Company. tered: Myrtle Cemetery Co., with capital of \$1000, by Albert D. Rusk and others.

Sherman - Gaslight Company. - S Gastight Co., with capital of \$30,000, has been incorporated by E. L. Samuel of Frankfort, Ky.; Tom Randolph and J. R. Ellis of Sher-

Strawn - Coal Mines -- Mt. Marion Coal Mining Co., reported lately as incorporated with capital stock of \$150,000, has purchased 2500 acres of coal lands, and will install me chinery at once for mining. Address C Berklew, secretary.*

Temple-Cotton Gin.-A Mr. Eddy of Eddy Texas, will build cotton gin at Temple.

Waco-Knitting Mill.-Waco Knitting Mill.

Co. has been organized to establish the k ting mill reported recently; will have cap of \$35,000. Directors are F. L. Carroll, J. Tyler, M. L. Garrett and others. ulzed to establish the knit

Wharton - Syrup Factory. - Jones Syrup Mill, burned several months ago, will be re-built on an enlarged scale; building will be

VIRGINIA.

Alexandria—Electric-light and Gas Plants City will expend \$20,000 improving its elec-tric-light and gas plants. Address "The Mayor.

Alexandria—Improvements.—City will vote on issuance of \$50,000 of bonds for public im-provements; \$20,000 will be used in improve to gas plant recently reported. The Mayor."

Blackstone-Electric-light and Ice Plants

Berkley-Land Improvement.-Cam Heights Co., reported lately as having p chased Woodward farm and to improve say as a suburb, has incorporated, with capital stock of not less than \$20,000 nor more than

Christiansburg — Road Improvements Moutgomery county will issue \$16,000 bonds for macadamizing road from Ch tiansburg to Blacksburg. Address "Cou Clerk.

Clifton Forge-Street Paving.—City will issue \$15,000 of bonds for street paving, as lately reported; W. F. Tinsley, mayor.

Crewe-Telephone Exchange.—C. M. Uber of Blackstone, Va., will build telephone exchange at Crewe, recently reported.

Fredericksburg-Shirt and Overall Fac-tory,-Chas. I. Stengle is organizing a \$6000 anufacture of shirts and over chinery for which has not been p

Ivanhoe-Mining.-Chartered: Wissler Min-

Lynchburg - Tobacco Factory .- Con wealth Tobacco Co., incorporated under New Jersey laws with capital stock of 4500,000, has purchased, will enlarge and operate the d Carrington Tobacco Co. of Lynchburg Wm. H. Butler of New York is president; J. Snead, vice-president, and E. A. Alle secretary-treasurer.

Norfolk-Ice Factory.-People's Ice Co.

has been incorporated, with capital stock 319,000, for manufacture of ice. Chas Scott is president; E. M. Bell, vice-presid Arthur J. Odell, treasurer, and A. J. Odell

Norfolk-Land Improvement.-Jam Park & Land Co. will be organized, with capital stock of \$140,000, for purchasing and developing 3475 acres of land on the James river. D. R. Creccy & Co. are the promoters.

Norfolk — Electric-light Plant. — Norfolk Electric Light & Gas Co., recently organized by H. L. Page, R. B. Fentress and W. T.

Norfolk-Mercantile.- Chartered: Norfolk Antique Co., for dealing in jewelry and at figuities, with capital of \$5000, by Charle Palmer (president) and others.

Norfolk—Lumber Company,—Norfolk Lum er Co, has been incorporated, with capital f \$25,000, for lumber manufacturing, by James E. Etheridge, president; L. O. Parrist of Fayetteville, N. C., vice-president, and H W. Johnson, secretary-treasurer.

Norfolk-Paving.—Southern Paving & Construction Co. of Chattanooga, Tenn., has received contract at \$200,000 for paving Atlan tic City ward.

Norfolk-Construction Company .- E. Cr & Son Co. has been incorporated, with au-thorized capital of \$10,000, for conducting general pile-driving, bridge-construction, dredging and warehouse business. Ethel-dred Cross of Portsmouth is president; Sam-uel Cross of Portsmouth, vice-president; R. L. Bossman of Norfolk treesures and Chas. Bosman of Norfolk, treasurer, and Chas B. Cross of Portsmouth, secretary,

Portsmouth-Cotton-oil Mill.-Fred Olive of Charlotte, N. C., and associates are said to have purchased site at Portsmouth for \$30,000 on which to erect large cottonseed-oil

Richmond -- Printing House, -- Baughman Stationery Co. has had plans drawn for erec-tion of large printing house, and E. T. D. Myers, Jr., will award contract for and suerintend its erection

Richmond-Iron Works.-Richmond Manu facturing Co. will apply for charter and rect large iron works

Rockbridge Alum Springs-Ice and Cold-torage Plant and Steam Laundry.-James A. torage Plant and Steam Laundry.—James A lant and steam laundry recently reported 'ontracts for machinery have been let

Tomsbrook-Lime-kiln.-Rock Dale is erecting new lime-kiln with capacity f 100 barrels per day

Urbanna-Shirt and Overall Factory.-Randolph Howard of Fredericksburg, Va., is lguring with New York parties for es ishment of shirt and overall factory Urbanna.

Waverly-Cannery.-Waverly Canning Co is the name of the \$10,000 company reported ately as being organized for establishment of a cannery. John G. Hawley is president.

Waverly-Bottling Works.-John G. Haw ey has purchased an interest in the Coppa haunk Lithia Arsenic Springs property, and will place the water on the market.

WEST VIRGINIA.

Belington-Electric-light Plant and Water orks.-Company with capital stock of \$50, 00 is arranging to construct electric plant and water-works. Address "The Mayor."

Bluefield-Supply Company.-Superior Sup and operating furnaces, rolling mills, the chine shops and foundries, etc., by W. McAytor and W. E. Dawless of Bluefie H. S. Brown of Bramwell and others. Capl al stock is \$100,000

Charleston - Fire-brick Works, - Kanawha & New River Fire-Brick Co., previously re-sorted incorporated for creetion of brick works with capacity of 2,000,000 brick per-cear, will also install machinery for manufacture of tiles, fireproofing, etc.; clay will ed and hauled by electric power. Edrard B. Neal is general manager-treasured in Coyle & Richardson Building.

Charleston-Mining.—Chartered: Elk Mining Co., with capital of \$5000, by Robert Feltz, E. B. Stone, J. M. Herpeck and others.

Clarksburg — Land Improvement. — J. O. Brooks, J. H. Wheelwright, C. W. Watson and others of Fairmont, C. E. Pride, John W. Davis and others of Clarksburg have purchased 500 acres of land near Clarksburg and will improve same by laying off in build-ng lots and installing water-works, electric light plant, etc.

Durbin-Broom Factory.-Barton Wood uff contemplates establishing broom fac-

Elkins—Telephone Company.—West Virginia Eastern Telephone Co. has been incor-

orated, with capital of \$10,000, by C. H. Scott, J. M. Woodford, O. J. King and others.

Kanawha Falls -- Coal Mines. -- Cataract Coal & Land Co., recently incorporated for development of coal mines in vicinity of Kanawha Falls, has completed organization with Dr. L. Pritchard, president; Grenville Lewis, Jr., vice-president, and C. E. Krebs, secretary-treasurer.

Keyser-Coal Mines .- Arnold Coal Co. has been incorporated, with capital of \$20,000, for developing coal mines, by D. A. Arnold, D. S. Arnold, F. L. Baker and others.

Parkersburg—Iron and Steel Company. Ionarch Iron & Steel Co. has begun erection of works for the manufacture of planished ron sheets under the patents of G. C. Broonall of Parkersburg; it has inc with capital stock of \$100,000. S. M. N Pittsburg, Pa., is president; E. M. Pittsburg, Pa., of Pittsburg, Pa., secretary; G. Broomall of Parkersburg, treasurer, and J. R. Rose of Parkersburg, general manager. Plant will, it is said, be in partial operation about

Morgantown-Oil Wells.-Oregon Oil Co. with capital of \$5000, has been incorporated by A. J. Hawse of Clarksburg, W. Va.; S. H. Bowman and L. P. Horr of Fremont, and F. P. Corbin of Morgantown.

Parkersburg-Gas-pipe Line.--It is that Standard Oil Co. (New York) has awarded contract for 120 miles of 16-inch pipe, which it will lay at a cost of \$2,000,000 to pipe natural gas from its gas territory in Lewis county, West Virginia, to Toledo, Ohio.

Piedmont — Water-works Improvement. City will lay forty tons of 10-inch water pip S. York, engineer, 1526 East Biddle treet. Baltimore, Md.

Red House Shoals-Transfer Company-Red House Transfer Co. has been incorporated to conduct general ferry and transfer business, by A. S. Leach, A. L. Leach, S. E. Leach and others; capital \$1000.

Riverside—Cement Plant.—The Ackerman interests, which are identified with the Cum-berland (Md.) Hydraulic Cement & Manufac turing Co., are the promoters in the estab-ishment of a cement plant at Riverside with pacity of 2000 barrels per day.

Wheeling-Oil Wells,-Star Petroleum Co. with capital stock of \$1,000,000, has been in corporated by H. T. McGregor, L. E. Schrae-der, C. E. Morris and others.

INDIAN TERRITORY.

Ardmore — Cotton Compress. — Ardmore Compress Co., lately reported incorporated with capital stock of \$40,000, has contracted or installation of a 2000-ton compound level

Collinsville - Water-works, - M. coort of Guthrie, O. T., will constem of water-works at Collinsville. will construct sys

Eufaula - Water-works. - Franchise for struction of water-works has been nted to C. E. Foley, Philip Brown and John McFarland.

South McAlester-Water Company .- Pur south McAlester—water Company.—Pur-cell Water Co. has been incorporated, with capital stock of \$45,000, by Dorset Cater, W. G. Blanchard and G. W. Brown.

Tulsa-Realty Company,-National Realty Co. has been incorporated, with capital of \$25,000, by Ellis Short, W. N. Robinson, Earl D. Bailey and others.

Wapanuka - Cottoh-oil Mill. - Wapanuka Wapanuka Cottonseed Oil Co. has been incorporated, with capital stock of \$50,000, by James Burns, Robert E. Wade, Clarence H. Griffith and others

OKLAHOMA TERRITORY.

Blackwell - Land and Coal Company. therokee Land, Coal & Savings Co. has been incorporated, with capital stock of \$100,000, by H. S. Curley, A. J. Blackwell, W. G. Anderson and others. Enid-Mercantile.-Wirt & Lyons Co., with

pital of \$25,000, by W. H. Wirt and others Geary-Improvement Company .- Geary In ent Co. has been incorporated, with

capital stock of \$15,000, by L. J. Downey, Ed. Gillespie, H. S. Guthrie and others.

Leger-Cotton-oil Mill.-Leger Oil & Mill-ng Co. has been incorporated, with capital tock of \$75,000, for manufacture of cottonstock of \$75,000, for manufacture of cotton-seed olicake and meal, by H. H. Davis of Weatherford, Texas; W. T. Wagoner of De-catur, Texas; R. E. Dunlap and others of

Oklahoma City-Brewery .- A. Ruemmell of Oklahoma City—Brewery.—A. Ruemmell of 8t. Louis, Mo.; Adolphus Busch and Wm. J. Lemp of St. Louis, Mo., and others will or-ganize Oklahoma Ice & Brewing Co., with capital stock of \$250,000, for establishment of ice factory and brewery; will also manu-facture electric light and power; brewery capacity will be 75,000 barrels per year. Plans for buildings are being prepared by Whitman, Walsh & Boisseller of St. Louis,

Shawnee-Cotton Manufacturing.-Incom stack \$100,000, to manufacture cotton products, by H. F. Douglass, B. F. Hamilton, H. G. Beard, Columbus Lytal and F. P. Stearns

BURNED.

Chilhowie, Va.-Chilhowie Lumber Co.'s mill; estimated loss \$40,000.

Columbus, Ga.-Columbus Iron Works; es timated loss \$225,000.

Cumberland, Md.-Mills of Cumberland Paper Co. damaged to extent of \$75,000.

Thomasville, N. C .- North State Manufac turing Co.'s cradle factory; loss \$8500.

BUILDING NOTES.

Atlanta, Ga.—College.—G. L. Normann's plans have been accepted for proposed \$30,000 science hall for Emory College. Bids will be

Baltimore, Md.-Church.-St. Stanislaus' Catholic Church, Rev. Father Morys, rector, will erect a branch church, two stories, of granite, after plans by Baldwin & Penning-

Baltimore, Md. - Building. - Contract to rect Bohemian hall and gymnasium building has been awarded to A. Knell, Jr., at \$18.00

Baltimore, Md.-Bank Building.-E. M. Noel has received contract at about \$100,000 for erection of proposed building of International Trust Co., previously reported.

Berkeley Springs, W. Va.—Hotel.—It is re-ported that a \$200,000 hotel will be erected by company represented by Calvin Chestnut of Baltimore, Md.

Birmingham, Ala.—Theater.—C. D. Hurley as contract at \$6000 for erecting proposed theater. Birmingham, Ala.— College.—Birmingham

Medical College will erect a four-story bri structure; Dr. L. C. Le Grande, secretary.

Birmingham, Ala.—Business Building.—W. D. Wood and W. B. Dickinson will erect five-story business building.

Camden, Ark.-Depot.-St. Louis South western Railway will expend about \$50,000 in improvements to its property at Camden, including erection of a \$10,000 brick and stone passenger depot; F. H. Britton, general man ager, St. Louis, Mo.

Cartersville, Ga.-Store Building.-Sam P. Jones will erect three-story brick store bing to cost \$12,000.

Cartersville, Ga.—Depot.—Western & At-lantic depot will be enlarged at a cost of \$7000; contract awarded to R. W. Smith & Son.

Charlotte, N. C.—Warehouse.—W. S. Forbes Co., packers, of Richmond, Va., have established a branch at Charlotte, as reported during the week, and will later or use 40x100 feet.

Chattanooga, Tenn.—Asylum.—An appro-priation of \$8600 is made for building an addi-tion to county asylum for insane and for re-modeling present structure. Address "Coun-ty Clock". ty Clerk.

Clarkesville, Ga.-Nursery, etc.-John Kellee of Fort Valley, Ga., has contracted with Cornelia Real Estate Co. for 500 acres of land near Clarkesville; 300 acres will be improve as a nursery, erecting necessary buildings.

Columbus, Ga.—Cottages.—Eagle & Phenix Mills will contract for erection of twenty operatives' cottages.

Durham, N. C.-City Hall and Market.-Plans of Hook & Sawyer of Charlotte, N. C., have been accepted for proposed city hall and market at Durham, and bids for erection will be asked at once.

Elkins, W. Va.-Courthouse -Bid of J. C Conn of Uniontown, Pa., at \$119,881 has been accepted for erection of Randolph county's proposed courthouse.

El Paso, Texas—Sanitarium.—Dr. O. D. Weeks & Bro. will erect three-story sani-tarium 119x130 feet.

Galveston, Texas—Auditorium.—Bowden & Vorth have received contract for erection of proposed auditorium; plans by Geo. B. Stowe.

Guilford, Md.-Hotel.-Maryland Granite Co. of Baltimore, Md., has awarded contract to Eugene D. Springer for erection of a three story hotel 200x50 feet

Huntsville, Ala.-Business Block.-J. M. McKee has contract for remodeling Harri Bros.' block.

Kinston, N. C .- Printing-plant Building. Kinston Publishing Co. will erect building of brick, 50x60 feet, three stories high, to ive steam-heating equipment, light and ven tilating shaft, glass roof, flats apartments, with ranges, heating, laundry tubs, etc. Structural manufacturers and contractors

are

tise

Mi cent Me Bail war teria ehur

Leig

his 1

impr catio cour Por will brick haver awar

chine

Rie April archi mern

Roll accep Kans new l Reily accep buildi Sava

Spei Railw round build ments rection South St. Manui house.

St. I Buildi man a ard of prepar erectio Vers Davis, been a and sp and jai

Stribli West house. asium tion of bined.

> RA Augus

finished twenty-Austin Weathe Railroad the For the Par 02..

Louis.

apital

on, H. earns,

s; es-

aufac

ill be

slaus'

ecto

18,000

tern:

urley

brick

erect

outh 50,000

stone

man

m P.

orbes

erect

with

henix

ket.

hall

inty's

o. D. sani-

len &

anite itract three-

I. M.

rrison

ing.-

lding.

th, to d ven-nents,

etc.

are invited to submit estimates. (See adver-

Knoxville, Tenn.—Hotel.—The erection of a new hotel is talked of. W. B. Lockett may possibly give information.

Douisville, Ky. — Apartment-house and Dwellings.—Adolph Hallenberg has completed plans and contracts there been let for erection of a four-story apartment-house, obrick, with stone trimmings, 225x160 feet, to cost \$100,000, and for eight two-and-a-half-story dwellings adjoining.

Marlin, Texas—Hospital.—Dr. W. H. Allen has adopted plans and specifications for his proposed \$10,000 hospital.

Meridian, Miss.—Jail.—C. M. Rubush has submitted the lowest bid (\$29,250, including heating apparatus) for Lauderdale county's proposed jail.

meaning apparatus) for Lauderdaic county's proposed fall.

Montgomery, Ala.—Building.—The Advertiser Company has awarded contract to J. B. Worthington for remodeling building recently purchased for \$12,000.

Morganton, W. Va.—Warehouse.—W. H. Bailey has let contract for erection of \$8000 warehouse to First Ward Planing Mill Co. Nashville, Ten.—Church.—Second Presbyterian congregation will build a \$25,000 church. Address "The Pastor."

Norfolk, Va.—Hospital.—Dr. Southgate Leigh has awarded contract for erection of his proposed hospital to E. Tatterson; plans were made by Kendall, Taylor & Stevens of Boston, Mass., and call for building, three stories, of brick and stone, with all modern improvements.

Paris, Ky.—Courthouse.—Plans and specifi-cations are wanted for erection of a \$150,000 courthouse, as lately reported; building and vaults to be fireproof. Address J. W. Thomas, Jr., chairman or Hon. H. C. Smith, county judge.

Ponchatoula, La.—Hotel.—Louis Montville will build at Ponchatoula the three-story brick hotel lately reported under Brookhaven, Miss. Contracts have not been awarded for building, engineering or machinery.

Richmond, Va.—Hotel.—Bids will be opened April 28 in office of John Kevan Peebles, architect, Norfolk, Va., for erection of Zim-merman Hotel at Richmond.

Rolla, Mo.-School, School of Mines has accepted plans of Van Brunt & Howe of Kansas City, Mo., for erection of proposed new building.

Ruston, La. - Courthouse. - Plans of J. Reily Gordon Co. of Dallas, Texas, have been accepted for proposed courthouse at Ruston; building will cost \$33,000.

Savannah, Ga.-Dwellings.-J. C. Postell and W. H. Allen will erect twelve one-story brick dwellings.

Spencer, N. C.-Roundhouse, etc.-Southern Spencer, N. C.—Koundhouse, etc.—Southern Railway Co. has arranged for enlarging its roundhouse, as lately reported, and will increase capacity nine stalls; also proposes to build two car repair shops. Cost of improvements will be \$20,000, and will be under direction of Engineer Maintenance of Way R. Southgate, Salisbury, N. C.

St. Louis, Mo. – Warehouse. – American Manufacturing Co. will erect \$35,000 ware-

St. Louis, Mo.—Machinery Building.—Contract for erection of World's Fair Machinery Building has been awarded to Smith & Eastman at \$496,957; it will be 525x1000 feet.

Urbanna, Va.—Hotel.—A. Randolph Howard of Fredericksburg, Va., will have plans prepared by Knoxville (Tenn.) parties for erection of a \$15,000 hotel at Urbanna.

Versailles, Ky.—Jall and Residence.—W. O. Davis, R. L. Stout and E. Mulcahy have been appointed a committee to receive plans and specifications for erection of new jall and jaller's residence.

Westminster, S. C.—Store Building.—M. S. Stribling will erect brick store building.*

West Point, Ga.—Warehouse.—West Point Vholesale Grocery Co. will erect \$7000 ware-

Yazoo City, Miss.—Natatorium and Gym nasium.—"School Board" contemplates erec tion of a natatorium and gymnasium com-bined. Address E. S. Crane, president.

RAILROAD CONSTRUCTION.

Railways.

Augusta, Miss.—The Mobile, Jackson & Kansas City Railroad has, it is understood, finished its surveys from Augusta to a point twenty-five miles north of Newton.

Austin, Texas.—It is reported that the Weatherford, Mineral Wells & Northwestern Railroad is to be extended to connect with the Fort Worth & Denver City Railroad in the Panhandle.

Birmingham, Ala.—A survey has been com-pleted as far as Nicol for the projected rail-road which is to extend from Navy Cove, near Fort Morgan, to Birmingham.

Boonsboro, Va.—John Heald & Co. of Lynchburg are building a narrow-gauge rail-rond from Coleman's Falls to Jackson's Mountain. They own timber lands.

Burlington, N. C.—An electric line will, it is stated, be incorporated to build a road connecting Burlington, Graham, Haw River and River Falls, in Alamance county; capital

\$100,000.

Carrollton, Ga.—The Villa Rica Branch Railway Co. has settled litigation concerning rights of way for a three-mile spur to the plant of the Virginia-Carolina Chemical Co., and it is reported that the contract for construction will be let immediately, to be completed in sixty days.

Cleburne, Texas.—Rights of way are being secured for the new railroad from Cleburne

Denison, Texas.—It is reported that the Choctaw, Oklahoma & Gulf Railway will build a line from McLish to Denison, thirtyfive miles.

Denison, Texas.—Eugene E. White of Sulphur, I. T., telegraphs from St. Louis that the St. Louis & San Francisco Railroad has accepted the proposition made by the people of Sulphur, and will extend its line from Hickory to that place immediately.

Elkton, Md.—The Pennsylvania Railroad is preparing to build a third track between Wil-mington and Perryville.

Fairmont, W. Va.-The Fairmont & Clarks burg Electric Railroad Co. is receiving bids to extend its line from West Fairmont to

Farmville, Va.—The Charlotte, Farmville & James River Valley Railway Co. has decided, in accordance with its charter, just approved by the governor, to construct its line from Farmville to Smithville, thence via South Boston and Houston to Danville. It will be a branch line to connect with the Southern Railway either at Drake's Branch or Keysville. or Keysville.

or Keysville.

Frederick, Md.—The incorporators of the Liberty Copper Mines, near Woodsboro, will, it is reported, build a short railroad to connect the plant with either the Pennsylvania or the Western Maryland Railroad.

Goldsboro, N. C.—It is reported that the Cape Fear & Northern Railway will be extended to Swansboro.

Gueydan, La.—The Houston, Beaumont & New Orleans Railroad is a proposed line which is expected to pass through Gueydan. R. A. Hardaway of Harlin, Texas, has been in Gueydan looking for rights of way.

Guthrie, O. T.—It is reported that the Chicago, Rock Island & Pacific will extend its line from Enid to Guthrie.

Guthrie, Okla.—The Choctaw, Oklahoma & Gulf Raliroad has completed a survey from Hewitt, I. T., to Lawton, where it connects with another branch. It reaches Comanche, on the Rock Island.

Hagerstown, Md.-Surveys are being made to continue the Boonsboro extension of the Hagerstown Electric Railway over the moun-tain to Myersville.

Hempstead, Texas.—A meeting has been held proposing the construction of a railroad from Hempstead to Stoneham. C. C. Waller, president of the Southwestern Promoting Co., was present.

Hickory, N. C.—A movement has begun to build a railroad from Hickory to the factory of the E. L. Shuford Manufacturing Co. A park and pleasure ground are propo

Houston, Texas.—Surveyors have begun work on the proposed line of the Interna-tional & Great Northern Railroad from

Houston to Beaumont.

Huntsville, Ala.—It is reported that a route for a trunk line railroad to be built through Kentucky, Tennessee and Alabama will soon be surveyed.

Jackson, Ky.—It is reported that the new rallroad between Jackson and Frozen, which is being built by the Kentucky Lumber & Veneer Co., will be finished by the middle of

Kanawha Falls, W. Va.—Engineers are completing the survey for the lower Loup Creek Railroad.

Laurens, S. C .- An effort is being made, it is understood, to build an electric railway between Laurens and Clinton by H. Y. Simp

Liberty, Mo.—The Chicago, Rock Island & Pacific Railway Co. is surveying, it is reported, for an air line from Benton, Mo., to Kansas City, so as to enter the latter over its own track, instead of using the Burling-

Louisville, Ky.—R. S. Veech and others are interested in the Jeffersonville, New Albany & Sellersburg Rapid Transit Co., which is to build a line connecting those places.

Luraville, Fla.—The Suwannee & San Pedro Railway, which crosses the Suwannee four miles below Luraville, has been completed fifteen miles from Mayo toward Perry, which is to be the terminus of the road.

road.

Montague, Texas.—The Oklahoma & Texas Southern Railway Co. is advertising for bids for the grading and cleaning of ten and one-half miles of railroad between the Missouri, Kansas & Texas Railroad and Montague. It is stated that the successful bidder will receive the option on grading and cleaning fifteen miles of line south to the Fort Worth & Denyer Religion of a Superst. Texas. Denver Railroad at Sunset, Texas.

Montgomery, Ala.—The Alabama & Mississippi Railroad Co. has been chartered to build a lumber road from Vinegar Bend to Lekesburg.

Murfreesboro, Tenn.—The county court has provided for a committee to consider the proposition of Dr. W. L. Dudley and others to build an electric railroad from Nashville to Murfreesboro.

Newport, Ark.—Work on the Jonesboro, Newport News & Western Railroad is re-ported to have begun. When completed the line will give a connection to Memphis over the Frisco.

Norfolk, Va.—Tracklaying has begun for the Chesapeake Transit Co. on its line to Cape Henry, sixteen miles long.

Norfolk, Va.—The Virginia Beach division of the Norfolk & Southern Railway will, it is understood, be extended from Virginia Beach to Cape Henry.

Beach to Cape Henry.

Piedmont, W. Va.—It is reported that grading will begin immediately on an extension of the West Virginia Central to connect with the Little Kanawha Railroad.

Richmond, Va.—George W. Stevens, president of the Chesapeake & Ohio Railway, is said to be one of the incorporators of the Big Sandy Railway Co., chartered in Kentucky, and it is also stated that the Chesapeake & Ohio is behind the new road.

Sapulpa, I. T.—The St. Louis & San Francisco is reported to have secured control of the Arkansas Valley & Western, and is said to be contemplating the extension of the line from Sapulpa to Enid, Okla., 125 miles.

Scottsboro, Ala.—Work has begun on a new railroad from Bridgeport up Dorau's cove to the Needmore coal mines. The line will be eighteen miles long. McCall & Co. tre the contractors.

Stantonsburg, N. C.—S. H. Crocker and others are endeavoring to organize a company for the construction of a railroad from Wilson to Stantonsburg, and thence to tidewater via Greenville or Snow Hill.

St. Louis, Mo.—Surveyors have begun work, it is reported, for the St. Louis, St. Charles & Western Railroad, an electric line from Chillicothe to Trenton, about twenty-five

Wheeling, W. Va.—Surveys are being made, it is understood, for the Holly River & Addi-son Raitroad, in which John T. McGraw of Grafton and others are interested.

Tyler, Texas.—It is reported that the St. Louis Southwestern has finally decided to extend from Lufkin to Orange via Beauont, a distance of 100 miles.

Van Vleck, Texas.—The right of way for the Southern Pacific extension to Thompson's plantation is being cleared and graded.

Vidalia, Ga.—The survey for the Stillmore extension of the Millen & Southwestern Railroad has been completed as far as Vidalia, and it is understood that grading will begin immediately.

Vidalia, Ga.—The Darien & Western Rail-road, according to a report, is to be extended to Vidalia from Walthourville, on the Savan-nah, Florida & Western. John S. Lane at Darien, Ga., is the general manager.

Vidaila, Ga.—It is reported that the Mid-ville, Swainsboro & Red Bluff Railroad will be extended to Vidalia from Swainsboro. Jesse Thompson and others are interested in

Wichita Falls, Texas.—It is reported that the Arkansas & Choctaw will soon let the contract for its line from Red River to Wichita Falls.

Street Railways.

Baltimore, Md. — The city council has passed an ordinance authorizing the United Railways & Electric Co. to lay a number of curves and some new track.

Burlington, N. C.—A charter has been granted for the Graham, Burlington & River Falls Street Railway Co. to construct and operate a line from Burlington through Graham, River Falls and other places in Ala-

mance county. J. W. Menefee and others are the incorporators.

Chattanooga, Tenn.—The Chattanooga Electric Rallway Co. and the Chattanooga & Lookout Mountain Railway have been granted franchises over roads in the county. Chattanooga, Tenn.—The Rapid Transit Co. will, it is reported, establish a new line

in Hill City.

Chattanooga, Tenn.—Franchises granted to the Chattanooga Electric Railway Co. pro-vide for an extension of its Oak-street line, and also for an extension of the East Lake

Chattanooga, Tenn.—It is understood that the Rapid Transit Co. will begin work at once on the Georgia State Line extension.

once on the Georgia State Line extension.

Corsicana, Texas.—It is reported that contracts will be let soon for building the proposed electric street railroad.

Nashville, Tenn.—It is reported that the Nashville Railway receivers will apply for a franchise to build a double-track line along the Charlotte turnpike from the corporation line to Ninth street, in West Nashville.

Norfolk, Va.—The Chasanapha Tennait Ca.

Norfolk, Va.—The Chesapeake Transit Co. has begun laying track from the suburbs of Norfolk towards Cape Henry.

Oklahoma City, O. T.—The Metropolitan Construction Co. has been chartered to build street railways, gas plants, etc., by James R. Keaton, Frank Wells and others.

Spartanburg, S. C.—The Spartanburg Railway, Gas & Electric Co. has, it is understood, made preparations to construct the Churchstreet line of the electric railroad immediates.

Machinery, Proposals and Supplies Wanted.

Manufacturers and others in need of machinery of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery needed we will make their wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. The MANUFACTURERS' REC-ORD has received during the week the following particulars as to ma-chinery that is wanted.

Air Compressor.—John Davis, 81 Haverhill street, Boston, Mass., wants second-hand belted air compressor, 16 or 18-inch cylinder.

Bakery Equipment.—Electric Steam Bak-ery Co., 1815 Second avenue, Birmingham, Ala., wants to purchase new modern bake

Ball-winding Machine.-Vance Cotton Mill Co., Chattanooga, Tenn., wants to buy a ball-winding machine for balling wrapping

Baseball Supplies.—See "Bicycle Sundries." Baseball Supplies.—See "Bicycle Sundries.

Belycle Sundries.—Peninsula Cycle Co.,
Bell Haven, Va., wants catalogues on bicycle
sundries and baseball supplies.

Blacksmith Shop.—See "Machine Tools."

Bobbin-factory Machinery.—J. W. Sproles, Greenwood, S. C., wants addresses of makers of machinery for making rings for bobbins.

Boiler and Engine.—See "Electric-light Markets"

Plant.

Boiler and Engine.—City of Elberton, Ga., will buy 159-horse-power boiler and 159-horse-power automatic engine for electric plant. Address Thomas M. Swip, president city

Boiler and Engines. - See "Chemical Works."

Boilers and Engines.-Battery Machinery Co., Rome, Ga., is in the market for six boil-ers (either skid or furnace), ranging from sixteen to thirty horse-power, and engines ranging from sixteen to twenty horse-power.

Bottles.—G. W. Pendavis, Baldwin, Fla., wants addresses of manufacturers of ink

Bridges.—Contracts will be let April 21 for construction of four steel bridges in Cocke county, Tennessee. Address "Clerk of Cocke County Court," Newport, Tenn.

Broom Machinery.—Barton Woodruff, Dur-bln. W. Va., wants to correspond with mak-ers of broom machinery and supplies.

Brewery Machinery.—Thos. J. McBride, Shreveport, La., wants to correspond with manufacturers of brewery machinery.

Builders' Materials.—Lynchburg Builders' Exchange, Lynchburg, Va., wants catalogues, price-lists, etc., of builders' materials. Building Material.-M. S. Stribling, Westminster, S. C., wants prices on building materials, including roofing, etc.

Building Materials.—D. W. Jacobs, Clarksburg, W. Va., wants bids at once on complete line of building material, including roofing, metal ceilings, brick, etc.

Building Supplies.—V. Cascino, Box 911, Mexico City, Mexico, wants addresses of manufacturers of metal shingles.

Building Supplies.—Neal-Millard Company, 112-114 Bay street, west, Savannah, Ga., wants catalogues and price-lists on mantels, grates and tiling.

Canal.—Sealed proposals will be received until May 8 at office of drainage commission, New Orleans, La., Irwin Jamison, secretary, for construction of a lined and covered canal, and for lined and covered canal and pipe line, all in accordance with plans and specifications on file. Each bid must be accompanied by certified check for \$500 and bond to amount of one-quarter of estimated cost reguired. Usual rights reserved.

Canning Machinery.—Thos. J. McBride, Shreveport, La., wants to correspond with manufacturers of canning machinery.

Chemical Works.—Robert E. Gramling, 1427-8 Empire Building, Atlanta, Ga., wants 10-horse-power engine, boiler, piping, heating plant, ammonia machines, seven-horse-power motor, 120 alternating; one three-horse-power engine, tanks, etc.

Church Furniture.—Belle Haven Presbyterian Church, P. O. Box 16, Bell Haven, Va., will place orders for pews, pulpit stand, chairs, etc.

Coffee Mill.—W. M. Freese, Clarksburg, W. Va., wants estimates on machinery for equipping a liquid coffee plant.

Coke Ovens.—See "Mining Equipment." Compressed Paper Manufacturers. — See

"Wheels."

Electrical Machinery. — See "Chemical Works."

Electrical Machinery.—Bowen & Street, 600 Citizens' Bank Building, Norfolk, Va., are in the market for three 220-volt direct-current motors, one 50 horse-power, one 60 horsepower and one 100 horse-power, new or second-hand.

Electrical Supplies.—F. O. Myers, Trion Factory, Ga., wants addresses of manufacturers of small desk fans with water motor attached.

Electric-light Plant, — City of Lebanon, Tenn., is in the market for complete light plant, including engine and boiler, wire, lamps, etc. Address A. M. McClain, mayor.

Engine,—Citizens' Lumber & Coal Co., Westminster, Md., wants to purchase secondhand gasoline engine.

Engine.--Dubois & Bond Bros., Piedmont, W. Va., will need a 200-horse-power engine.

Engines.—John Davis, 81 Haverhill street, Boston, Mass., wants 200-horse-power secondhand slide-valve engine and 250-horse-power engine, 14 to 18 feet diameter, 28 to 36-inch face, 10 to 12-inch bore.

Excavating, Wharf Construction, etc.— David Price, quartermaster, Fort Getty, 8. C., will receive scaled proposals in triplicate until May 14 for constructing steel and iron wharf and excavating channel and basin to wharf. Information furnished on application. United States reserves usual rights.

Firearms.—R. F. Johnson, Ayden, N. C., wants addresses of firms dealing in gun material and nistols.

Flour Mill.-L. E. Blanchard, Harlem, Ga., is in the market for roller flour machinery.

Foundry Equipment. — See "Machine Tools."

Ginnery.-See "Oll Mill."

Glass-factory Machinery.--Dr. William Sindorf, Mobile, Ala., will want machinery for making airtight glass jars.

Grinding Mill.—Dixle Paint Co., 1720-1722 Tenth avenue, north, Birmingham, Ala., is in the market for a 42-inch under-running self-tramming buld mill for grinding mineral paint.

Hardware Manufacturers,—Josiah Moore, Greenwood, S. C., wants to correspond with manufacturers of screwdrivers.

Heating Apparatus.—D. W. Jacobs, Clarksburg, W. Va., wants bids at once on heating and lighting apparatus for store and office building.

Knitting Mill.—H. M. Shaw, Oxford, N. C., wants full information as to equipment of knitting mill, operation, cost of machinery, etc.

Lighting Apparatus.—See "Heating Apparatus."

Machine Tools. - See "Railway Equipment."

Machine Tools.-Crescent Bed Co., Ltd., New Orleans, La., wants power press or comblined shear and puncher, either new or second-hand; capacity punch one-half to fiveeighths hole in one-half to five-eighths iron; shear in proportion.

Machine Tools.—Spruks Manufacturing Co., Washington, N. C., will purchase complete equipment for machine shop, foundry and blacksmith shop about April 15.

Mining Equipment.—Mt. Marion Coal Mining Co., C. M. Berklew, secretary-treasurer, Strawn, Texas, is in need of 150-horse-power engine, two 80-horse-power boilers, holsting machinery, shaft fixtures and equipment.

Mining Equipment.—W. C. Robertson, 227 West Fourteenth street, New York city, wants to purchase pump and boller to be used in gold placer mine. Machinery must be made in sections, no piece weighing over 200 pounds.

Mining Equipment. — Chicago-Tennessee Coal & Coke Co., Roger B. McMuilen, treasurer, 125 La Saile street, Chicago, Ill., wants addresses of manufacturers of railway equipment, electric mining machinery, coke ovens, crushing and washing machinery.

Mining Equipment.—J. S. Stearns & Co., Ludington, Mich., will want boiler, engines, electric coal-cutting, screening and washing machinery, mine supplies, etc., for coal mines and coke ovens.

Mining Machinery.—L. D. Sampson Mining Co., Barboursville, Ky., is in the market for necessary machinery for mining lead and zinc.

Odometer Manufacturers.—Wallach Bros., 57 Gracechurch street, London, E. C., England, want name and address of makers of speed recorders for electric tram cars.

Oil Mill.—Shubuta Oil & Manufacturing Co., S. H. Floys, president, Shubuta, Miss., will need cottonseed-oil-mill outfit.

Oil Mill.—T. W. Sullivan, Carroll County Oil Manufacturing Co., North Carrollton, Misa., wants complete two-press outfit, including complete ginnery.

Oil Mill.—E. Sternburger will soon award contracts for cottonseed-oil mill.

Overall and Shirt Machinery.—Chas. I. Stengle, Fredericksburg, Va., desires correspondence from makers of shirt and overall machinery.

Overall-factory Equipment.—A. Randolph Howard, Fredericksburg, Va., wants to correspond with manufacturers of machinery for making overalls and shirts.

Paint-factory Machinery.—See "Grinding

Paving.—W. F. Tinsley, Clifton Forge, Va. will receive bids on sidewalk paving.

Paving Brick.—C. M. Speer, superintendent streets, Newman, Ga., wants prices on streetpaving brick.

Piping.-Pioneer Oil & Gas Co., London, Ky., will want some well casing.

Railway Equipment.—Levert Lumber & Shingle Co., Ltd., Plaquemine, La., is in the market for two miles 35-pound steel rail, with plates, bolts and spikes; also twenty to twenty-four heavy logging cars for cypress, 35-inch cause.

Railway Equipment.—Brunswick Lumber Co., Franklin, Va., wants one-half mile of 56 or 60-pound steel relaying rails. Quote price f. o. b. Petersburg, Va.

Railway Equipment.—A. C., Box 906, Birmingham, Ala., wants four to eight hopperbottom cars in good condition, capacity not less than 40,000 pounds.

Bailway Equipment.—Bowen & Street, Norfolk. Va., are in the market for three 6x10 second-hand narrow-gauge locomotives, with trailing truck and tank on frames; also one second-hand six-foot wheel press and one sixfoot wheel inthe.

Railway Equipment.—Chas. T. Lehman, 1901 Powell avenue, Birmingham, Ala., is in the market for saddle-tank locomotive with six or seven-inch cylinder for standard and 36-inch gauges; send specifications and prices.

Railway Equipment.—St. Lawrence Boom & Manufacturing Co., Ronceverte, W. Va., wants one geared locomotive, 40-ton, standard-gauge, and one direct-connected locomotive, 60-ton, standard-gauge.

Railway Equipment. — Peacock's Iron Works, Selma, Ala., is in market for 15-ton standard-gauge locomotive for iron track, delivered in Mississippi, and for three miles of 30 to 35-pound relaying rails.

Road Machinery.—E. B. Tyler, Tulane Hotel, Nashville, Tenn., is in the market for two 8 or 10-ton steam road rollers, and wants prices f. o, b. Nashville.

Rolling-mill Equipments.—Henry Wehr, Pratt and Frederick streets, Baltimore, Md., will accept catalogues of rolling-mill equipment and kindred machinery.

Sewerage.-Sealed proposals addressed to

"Street Committee," Phoebus, Va., will be received until April 17 for constructing sewerage system. Bids must be accompanied by certified check for \$500. Plans and specifications may be obtained at recorder's office, or at office of Girard Chambers, engineer, Hampton, Va. Usual rights reserved.

Sewers.—Board of public works, Wm. W. Southgate, city engineer, Nashville, Tenn, will open bids April 22 for constructing four circular brick trunk sewers, in size from thirty inches to seven and one-half feet in diameter and requiring about 3,500,000 bricks, 32,000 cubic yards of excavation, besides iron, clay pipe and other necessary incidentals. Certified checks and bonds required, and usual rights reserved. Plans and specifications at city engineer's office.

Sugar Machinery.—John Davis, 81 Haverhill street, Boston, Mass., wants prices and description of second-hand sugar machinery.

Suspender-factory Supplies.—Martin Manufacturing Co., Walkertown, N. C., wants to correspond with manufacturers of suspenderfactory materials, such as webbing, buckles, leather trimmings, etc.

Textile Machinery. — See "Ball-winding Machinery."

Tiling.—J. B. Harris, M. D., Vendome Building, Nashville, Tenn., wants to correspond with manufacturers of tiling (for lining furnace) to withstand a great degree of heat. Full information desired.

Water Motor.—See "Electrical Machinery."
Water-works.—Bids are asked for furnishing materials for proposed water-works at Denton, Md., until April 21. Address Jas. H. Trazsare.

Water-works.—City of Apalachicola, Fla., wants to correspond with contractors relative to construction of \$3000 water-works. Address G. W. Hinsley, city clerk, Box 3.

Well-boring.—Anderson Water, Light & Power Co., Anderson, S. C., wants to corre spond with contractors relative to boring deep well that will furnish 100 gallons water a minute.

Well-boring.—Alabama Port Oil Co., 80 St. Francis street, Mobile, Ala., will receive estimates until April 21 for boring an oil well 1000, 1500 or 2000 feet; contractors to supply everything requisite for completion of well; bond required and usual rights reserved.

Wheels.—Salem Machine Works, Salem, Va., wants addresses of makers of compressed paper or fiber friction wheels; also of the manufacturers of dried rawhide.

Woodworking Machinery.—Thos. J. Mc-Bride, Shreveport, La., wants to correspond with makers of hardwood workers' machinery.

Woodworking Machinery.—Frank Wright, Cave Springs, Ga., wants to purchase woodworking machinery and job press for manufacture of fly-screens.

Woodworking Machinery,—Peacock Manufacturing Co., Salisbury, N. C., is in want of a second-hand buzz planer (Fay & Egan preferred).

Woodworking Machinery.—Virginia Hardwood Manufacturing Co., 354 Broadway, New York, N. Y., wants two double-spoke sanding machines with adjustable boxes; state size of pulleys, price, etc.

Woodworking Machinery. — McNeill-Holt Company, Troy, N. C., will be in the market for a short-log saw-mill and a three or sixsaw combined lath mill and bolter.

Woodworking Machinery.—W. L. Fleming, Donnaha, N. C., wants to purchase machinery for making cross-arms, including secondhand planer that will dress four sides of 6x7 or 8-inch lumber.

Woodworking Machinery. — Battery Machinery Co., Rome, Ga., is in the market for second-hand resaw, planer (four surfacer), with matcher and molder, not to weigh over 5000 pounds, one combination fron-top saw table with resaw attachment, and one spoke and handle lathe.

Woodworking Machinery.—Hill & Morgan Manufacturers' Record Building, Baltimore Md., are in the market for an eight-inch four side second-hand molder.

TRADE NOTES.

Into Larger Offices.—American Diamond Rock Drill Co. has moved into larger and more commodious offices, and the address will be hereafter 95-97 Liberty street, New York.

Johns-Manville in St. Louis.—The St. Louis branch of H. W. Johns-Manville Company of New York reports having secured the contract for pipe covering in the new Bank of Commerce Building. The material used on all main pipes and risers is Asbesto-Sponge moided covering, and the breachings and hotwater tank will be covered with company's

Magnesia. Contract will amount to nearly \$1000.

New Jersey Foundry & Machine Co.—This company announces that its offices in New York city have been removed to 9-15 Murray street, where all communications should be addressed, and customers, both present and prospective, are invited to call.

Manufacturing Site Offered.—Manufacturers looking for a Southern location combining deep water and belt-line-railway facilities are invited to correspond with the McNaily Manufacturing Off Co., Norfolk, Va. The company has such a site, ten acres in extent, adjoining its oil mill.

The Emmert Vises.—Nordberg Manufacturing Co. of Waynesboro, Pa., writes the Emmert Manufacturing Co. of the same city as follows: "We have been using your vise on one of our benches for the past three weeks, and find that same works to our entire satisfaction. We therefore hand you herewith our order for twenty-three more vises." Users should investigate the Emmert vises.

Furnished Ball Engines.—Ball Engine Co. of Eric, Pa., furnished two engines, direct-connected to Crocker-Wheeler generators, for electric plant at Wallaceburg, Ont.; two engines, direct-connected to sume make of generators, at Eaton, Col., and two vertical cross compound engines, direct-connected to General Electric generators, at Minneapolis. Ball Engine Co. builds the Ball engines that were supplied.

Big Bald Mountain for Sale.—A rare opportunity in Southern lands can be investigated by addressing Wm. Johnston, Jr., Asheville, N. C. The property will be sold May 7. It comprises Big Bald Mountain, whereon is 1919 acres of land containing 8,000,000 to 10,000,000 feet of hardwood and fancy timber, and with great possibilities for fruit-growing, grazing, dairying, stock-farming, mining, game and fish preserves, etc.

Prison Improvements.—The prison commissioners of Tennessee have just placed an order with the Hawley Down-Draft Furnace Co. of Atlanta, Ga., for 700 horse-power of Hawley furnaces for the water-tube and tubular boilers at the State prison in Nashville. The commissioners operate the State coal mines, but find it advantageous to install the Hawley furnaces, both for coal saving and smoke prevention at the present plant.

Sales of Wells Light.—The Wells Light Manufacturing Co. of New York reports its sales for the month of March, 1902, to be more than double those of any other two corresponding months put together. For the present month to 14th sales are equal to a full month's business. During the last six weeks the difficulty has been to obtain material to manufacture; the sale comes as a matter of course. "It's the Light." Contractors and other users of portable lights are invited to investigate.

Soule Machinery Demanded.—Owing to the rapidly-increasing demand for its special machinery, the Soule Steam Feed Works of Meridian, Miss., manufacturer of saw-mill specialties, is installing a large amount of new machine tools and building 30x60-foot addition to its shop. Increase in trade is specially marked from distant territory, noticeably California, Washington and Canada. Recent sales in California have been nine steam feeds, in Washington eight and in Canada three.

Ordering Hicks Railway Equipment.—
Prompt deliveries and thoroughly efficient equipment are requirements that bring many important orders to F. M. Hicks of the Hicks Locomotive and Car Works of 225 Dearborn street, Chicago. Mr. Hicks flied during the past week orders for a passenger ceach for Beilingham Bay & British Columbia Railroad; for fifty hopper-bottom gondolas, 80,000 pounds capacity, for Bessener Coke Co. of Pittsburg, Pa., and three 50-ton freight engines for Lake Erie & Detroit River Railroad.

Besly Tools and Supplies.—Messrs. Charles H. Besly & Co., Chicago, report their general business very good. They are making shipments of tools and supplies to all parts of the Union. They report numerous sales of Gardner grinders. Within the past week shipments of these well-known machines have been made to Oregon, Wisconsin, Connecticut, New York and Massachusetts. Besly & Co. are receiving many orders from agricultural-implement builders for their celebrated "Badger" and "Bonanza" of cups, and are making liberal shipments of "Helmet" oil. The small tool business is very good indeed. A 300-page illustrated

A Gill
mills 1
ments
years, c
mills he
sections
ern fiele
in estal
very nu
tionally
discerni
present
Columb
edness
amount
dorf &
Trust 1
at 100 a

dorf &

Apr

catalog

to any

Union
Hoboke
rapid a
ing, un
various
able tra
heavy s
of sheet
16 gaug
Hender
works,
catalog
are inv
before

Protee
the Am

tures of

tectural
tones of
issued if
sey City
advertis
est to c
to whor
silica-gr
structur
tensivel
coast ss
Mexico,
dies and
its prot
elimate:
Somet
merous
market
contract
fulnil ti

factured Cloth Company waterpring it; a gases or a penetral can win able for manufacture as sever ison with plied to o ing the inquirer.

durable

desired

Hornad recent confider South, develop firm is enterpri He see the Soutenergy. It is:

and joi (Va.) SI be exter provement the Among from the for an of 400 feet

The d Railroad proved. have the 02.

nearly

This
New
Iurray
uld be
it and

actur-ombin-

facili

ie Me-k, Va. res in

nufa

es the e city r vise three ur en-

i you

mor Em

lirect-rs, for vo en-

f gen-cross Gen-

s that

pppor-gated eville, 7. It on is 10,000,-7, and wing, ining.

nmis

Nash-

State to in-

more corre-

pres-t full veeks ial to

er of and ed to

o the I ma-is of

de is

nine d in

1t. -

cient bring f the f 225 filed inger dum-

troit

s of s of week nines

their

ated

catalogue of Besly products will be mailed p any address on application

A Gilt-Edge Investment.—Southern cotton mills have always been profitable investments for capital, and during the past ten years, during which so many new and large mills have been established, capital from all sections of the country has sought the Southern field. Opportunities to obtain interests in established Southern mills have not been very numerous, yet occasionally some exceptionally good opportunity offers itself to the tionally good opportunity offers itself to the discerning investor. Such an opportunity is presented by the Olympia Cotton Mills of Columbia, S. C., in its certificates of indebtedness 6 per cent. gold bonds. Of the total amount of \$750,000, Messrs, J. Wm. Middendorf & Co., bankers and brokers, Continental Trust Building, Baltimore, Md., offer \$500,000 at 100 and accrued interest. Messrs. Middendorf & Co. recommend these certificates as a gilt-edge investment. Full details can be obtained on application to the firm.

TRADE LITERATURE.

Union Iron Works.—This plant, located at Hoboken, N. J., manufactures apparatus for rapid and economic handling, hoisting, loadrapid and economic handling, hoisting, loading, unloading and conveying materials of rarious kinds; also industrial railways, portable track, switches and turntables, light and heavy steam hammer forgings, and all kinds of sheet steel and plate work made from No. Is gauge to five-eighths inch thick. Messrs. Henderson & Schalscha, proprietors of the works, have issued a complete illustrated catalogue relative to their product, and users are invited to obtain particulars and prices before placing contracts elsewhere. before placing contracts elsewhere.

Protection from Corrosion.—The ability of the American engineer to design steel structures of great strength and pleasing architectural effect is shown in the eight half-tones on the handsome souvenir mailing card issued by Joseph Dixon Crucible Co. of Jersey City, N. J. The card is a piece of artistic advertising, and will prove of decided interest to constructing engineers and architects, to whom it will be sent on request. Dixon's slike graphite paint, which protects these structures from corrosion, has been very extensively used in the South, West and seacoast sections of the United States, also in Mexico, Australia, China, Japan, West Indies and Philippine Islands, and has proven its protective and wearing qualities in all climates. Protection from Corrosion.-The ability of

Something About Roofing.—There are numerous kinds of roofing materials on the market offered to owners of buildings and to contractors. Yet comparatively few roofings contract of overeta to owners of buildings and contractors. Yet comparatively few roofings fainli the requirements as to waterproof and durable qualities. In this connection it is desired to call attention to the roofing manufactured by the Lincoln (N. J.) Waterproof Cloth Co., office at Bound Brook, N. J. This company's original filnt reliable tough-coated waterproof durable roofing has no coal tar in it; acid or acid fumes cannot affect it; gases cannot injure it; water cannot rot or penetrate it; vermin cannot attack it, nor can wind dislodge it. This roofing is suitable for every character of building, and the manufacturer invites tests in any way and as severely as possible, and then a comparison with the result of the same tests applied to other roofings. Literature concerning the roofing and samples are ready for inquirers.

Mr. J. P. Hornaday of the Maltby-Hornaday Co. of Cincinnati, O., during a recent visit in Baltimore expressed great confidence in the material future of the South. Mr. Hornaday has been active in developmental work in Kentucky and his firm is now interested in street-railway enterprises in that State and in Alabama. He sees in undeveloped water-power of the South particularly a great source of

It is announced that the machine shop nd joiner shops of the Newport News (Va.) Shipbuilding & Dry-Dock Co. are to be extended sixty feet, and that other improvements are to be made in the yards to meet the requirements of new contracts. Among the latest orders received is one from the Saginaw Steel Steamship Co. for an oil-tank vessel, 10,000 tons burden, 400 feet long, 50 feet beam and 24 draft.

The depot of the Western & Atlantic Railroad at Cartersville, Ga., is to be improved. R. W. Smith & Son of that town have the contract.

FINANCIAL NEWS.

The Manufacturers' Record invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern

Review of the Baltimore Market.

Office Manufacturers' Record,

Baltimore, Md., April 16. Seaboard Air Line stocks and bonds figured conspicuously in the Baltimore stock market during the week. A rapid advance in the common stock was caused by successive reports that the Seaboard would acquire control of the Louisville & Nashville Railroad, and that it would profit by the Louisville's acquirement of the Atlanta, Knoxville & Northern, while there were also rumors that other railway interests were endeavoring to obtain control of the Seaboard. None of the talk, however, came from authoritative sources and some people inclined to the view that the advance was due principally to the listing of the Seaboard bonds on the New York Stock Exchange, and also to im-provements in earnings. It was also surmised that the Louisville's proposed line from Cincinnati to Atlanta would benefit the Seaboard, and that there might be advantages accruing to the Seaboard system by an extension to Birmingham, connecting with the St. Louis & San Francisco Railroad. The trading in the stock, both common and preferred, and also in the 4 per cent. bonds, was large, and the activity continued during the week. The common stock started at 24½, rose fractionally, receded to the opening price, and then advanced step by step to 26. It next went ahead with considerable rapidity, barring fractional recessions at times, until it reached 271/4, from which there was a partial reaction to 26% after the aunouncement that John W. Gates had secured control of Louisville & Nashville. The preferred stock began the week at 45, dropped to 44%, and rose to 46%. Its course thereafter kept pace with the rise in the common until it reached 481/4, from which it reacted to 46%. The changes in the price of the 4 per cent. bonds were between 841/2 and 851/2, and the 5 per cents were steady at between 1041/2 and 1043/4.

Not a little activity developed in United Railways income bonds, which were dealt in between 70% and 71¼. There was also considerable trading in the 4 per cent. first-mortgage bonds of the United Railways. The common stock moved between 161/2 and 161/2, without particular interest. Some apprehension of legislation unfavorable to the company prevailed because of the extra session of the general assembly, but these fears were quieted by assurances that the legislature would confine itself to the special business for which it was summoned, namely, the tax levy.

Dullness characterized the securities of the G.-B.-S. Brewing Co. The common stock was traded in at from 181/2 to 191/2; the income bonds at $46\frac{1}{2}$ to 47, and the first-mortgage bonds around 54. Cotton Duck issues were steady at 11 to 12 for the common stock; 47 to 471/4 for the income bonds, and 791/2 to 791/8 for the 5 per cents. Consolidated Gas figured in the dealings to a considerable degree, selling at from 671/2 up to 71%, it being said that the pool was advancing the price, now that the legislature had adjourned, United Electric Light & Power preferred sold at 41 to 41%.

The trust-company stocks were quiet. Union Trust sold at from 641/2 to 65; American Bonding at 85; Maryland Casualty at 49% and 50; United States Fidelity at 153, and International at 127.

Mechanics' Bank changed hands at 31 at 1221/8; Georgia Southern & Florida 5s and 311/2; Howard Bank at 12; Farmers and Merchants' at 691/2; Union Bank at

119%, and Marine at 37.

The Western Maryland situation continued unsettled, no sale of the property having yet been made, and the stock was traded in at 30 to 30%. Atlantic Coast Line sold at 118 to 121%, the preferred at 120 to 122; Atlantic Coast Line of Connecticut at 230. Consolidated Gas 6s sold at 1141/4; Georgia, Carolina & Northern 5s at 1131/2, and George's Creek Coal at 115. Seaboard & Roanoke 5s changed hands at 1151/4: Wilmington & Weldon 5s

at 1151/4; Newport News & Old Point 5s at 1061/2, and Norfolk Street Railway 5s at 111%.

Securities traded in, but not otherwise quoted, were as follows: Virginia Midland 1sts, 109; Virginia Midland 2ds, 115 and 1151/2; Richmond & Danville gold 6s, 123; National Enameling preferred, 851/2; Raleigh & Gaston 5s, 1181/2; Raleigh & Augusta 68, 124%; Richmond Traction stock, 46; Carolina Central 48, 98; Charleston & Western of North Carolina 5s, 111 and 1111/2; Atlanta Street Railway 5s, 107%.

SECURITIES AT BALTIMORE.

Last Quotations of Stocks and Bonds During the Week Ended Wednes-day, April 16, 1902.

day, April	16, 1902.		
Railroad Stocks.	Par.	Bid.	Asked.
Georgia Southern & Florida	100	48	***
Georgia Southern & Florida 2d Pref	100	80	
Georgia Southern & Florida 2d Pref United Railways & Electric Co	50	16%	16%
Seaboard Railway Common Stock Seaboard Railway Preferred Stock	100	26	2614
Seaboard Railway Preferred Stock	100	46%	46%
Atlantic Coast Line of Conn	100	230	141
Bank Stocks.			
Citizens' National Bank	10		3334
Commercial and Farmers' National Bank	100	120	1007/4
First National Bank	100		180
Merchants' National Bank	100	196	198
National Bank of Baltimore National Bank of Commerce	100 15	118	13.5
National Marine Bank	30	28 351/4	30
National Mechanics' Bank	10	31	14.5
National Mechanics' Bank National Union Bank of Maryland	100	119	11916
Third National Bank	100	1 * *	120
Trust, Fidelity and Casualty Stocks.			
	100	(NA)	
Baltimore Trust & Guarantee	50	200	315
Central Real Estate & Trust	100	215	59 219
Fidelity & Deposit	50	210	10614
International Trust	100	126	127
Maryland Casualty	25	501/4	5136
Maryland Trust	100 50	211	214
Mercantile Trust & Deposit Co Union Trust	50	109	170%
United States Fidelity & Guaranty	100	64½ 152	65% 154
	400	A Una	104
Miscellaneous Stocks.			
G. B. & S. Brewing Co. (Voting Trust) Com	100	181/2	18%
United Electric L. & P. Co. Pref. Stock Cotton Duck	50	411/4	\$ 9.73.7
Consolidation Coal	100	10%	111/2
George's Creek Coal	100	114	83
Consolidated Gas	100	71%	7116
Atlantic Transport	100	235	245
Railroad Bonds.			
Atlanta & Charlotte 1st 7s, 1907		115	4481
Char. Col. & Aug. 2d 78, 1910	*************	110	1151/4
Georgia, Carolina & Northern 1st 5s, 1929		113	1.8.6
Char., Col. & Aug. 2d 7s, 1910		115	1151
		1281/2	129
Pledmont & Cumberland 1st 5s, 1911		109	***
Savannau, Florida & Western 98, 1891	******	115	1151
Virginia Midland 3d 6s, 1916		110	111
Virginia Midland 4th 3-4-5s, 1921		112	iis
Virginia Midland 5th 5s, 1926		11546	110
Georgia Facinc 1st 58, 1922. Pledmont & Cumberland 1st 58, 1911. Savannah, Florida & Western 58, 1934. Seaboard & Roanoke 58, 1926. Virginia Midland 3d 68, 1916. Virginia Midland 4th 3-458, 1921. Virginia Midland 5th 58, 1926. West Virginia Central 1st 68, 1911. Wilmington Columbia & Augusta 68, 1910.		1151	11584
Wilmington, Columbia & Augusta 68, 1919		116	117
Charleston Consol'd Electric 5a 1999		1221/8	277
Knoxville Traction 1st 5s. 1928.		92	89 95
Newport News & Old Point 5s, 1938		106	553
Norfolk Street Railway 5s, 1944		1111/4	111%
West Virginia Central 1st 68, 1910. Wilmington, Columbia & Augusta 68, 1910. Wilmington & Weldon Gold 58, 1935. Charleston Consol'd Electric 58, 1999. Knoxville Traction 1st 58, 1928. Newport News & Old Point 58, 1938. Norfolk Street Railway 58, 1944. United Railways & Electric Cons. 1st 48, 1949. United Railways & Electric Incomes 48, 1949. Seaboard 48.		95	9514
United Railways & Electric Incomes 4s, 1949		711%	7114
Seaboard 16.vear 5s		841/2	84%
Seaboard 10-year 5s		1041/2	10454
South Bound 5s		110%	1131/4
Miscellaneous Bonds.		24	* 1 4
Mt. Vernon & Woodberry Cotton Duck 5s Mt. Vernon & Woodb'y Cot. Duck Incomes		40	80
C R & S Recaving 1st 2.4s		46 5384	47
G. B. & S. Brewing 2d Incomes.		461/2	54 4694
United Electric Light & Power 41/28		85	851
G. B. & S. Brewing 2d Incomes. United Electric Light & Power 4½s. Consolidated Gas 68, 1910. Consolidated Gas 58, 1939.		114	
Consolidated Gas 5s, 1939			116%

SOUTHERN COTTON MILL STOCKS

Quotations Furnished by Hugh Mac-Rae & Co., Wilmington, N. C., for Week Ending April 15.

Rid	Asked
Abbeville Cotton Mills (8. C.) 75	91
Aiken Mfg. Co. (S. C.)	97
Anderson Cotton Mills (S. C.)	125
Arkwright Mills (S. C.)	
Augusta Factory (Ga.)	
Avondale Mills (Ala.) 821	
Bennettsville Mfg. Co. (S. C.) 85	91
Bibb Mfg. Co. (Ga.)	1091/
Brandon Mills (S. C.)	• 981/
Cabarrus Cotton Mills (N. C.) 125	
Clearwater Blchy, & Mfg. Co. (Ga.) 100	103
Clifton Mfg. Co. (S. C.)	175
Clinton Cotton Mills (S. C.) 119	
Courtenay Mfg. Co. (S. C.)	125
Dallas Mfg. Co. (Ala.) 73	
Darlington Mfg. Co. (S. C.) 90	
Eagle & Phenix Mills (Ga.)	95
Enoree Mfg. Co. (S. C.)	86
Enterprise Mfg. Co. (Ga.)	94
Gaffney Mfg. Co. (S. C.)	108
Granby Cotton Mills (S. C.)	98
Granby Cotton Mills (S. C.) 1st Pfd	100
Graniteville Mfg. Co. (S. C.) 165	170
Greenwood Cotton Mills (S. C.)	103
Grendel Mills (S. C.)	
Henrietta Mills (N. C.) 202	
King, John P., Mfg. Co. (S. C.) 95	98
Langley Mfg. Co. (S. C.)	108
Laurens Cotton Mills (S. C.) 148	109
Lockhart Mills (S. C.)	101
Louise Mills (N. C.)	130
Lynchburg Cotton Mills (Va.) 125 Lynchburg Cotton Mills (Va.) Pfd. 145	150
Manchester Cotton Mills (8. C.)	115
Manchester Cotton Mills (S. C.)	
Mayo Mills (N. C.)	106
Monaghan Mills (S. C.) 90	100
Newberry Cotton Mills (S. C.) 116	***
Newberry Cotton atms (b. C.) 110	

	1.00
Norris Cotton Mills (S. C.)	. 110
Odell Mfg, Co. (N. C.) 9	
Orr Cotton Mills (S. C.)	
Pacolet Mfg. Co. (S. C.)	0 10272
Pelzer Mfg. Co. (S. C.)	0 ***
Piedmont Mfg. Co. (S. C.) 16	7 175
Pool 17 W Mer Co. (S. C.)	GIE V
Poe, F. W., Mfg. Co. (S. C.) 12	81/2
Richland Cotton Mills (S. C.)	. 102
Richland Cotton Mills (S. C.) Pfd	. 101%
Roanoke Mills (N. C.) 9	1 100
Sibley Mfg. Co. (Ga.)	7.7
Southern Cotton Mills (N. C.)	. 105
Spartan Mills (S. C.)	714
Trion Mfg. Co. (S. C.)	772
Tucapau Mills (8. C.)	
Finder Cetter Mills (S. C.)	2 2 4 7
Union Cotton Mills (S. C.) 14	
Union Cotton Mills (S. C.) Pfd 100	
Victor Mfg. Co. (S. C.) 11	4
Warren Mfg. Co. (S. C.) 96	6 99
Warren Mfg. Co. (S. C.) Pfd 100	
Washington Mills (Va.) Pfd 101	136 105
Whitney Mfg. Co. (8. C.) 115	172 100
Wilmington Cot. Mills (N. C.) Pfd. 100	1/2
Wiscassett Mills (N. C.)	125
Wiscassett Mills (N. C.) ill	120

Louisville & Nashville.

Heavy dealings last week in the stock of the Louisville & Nashville Railroad upon the New York Stock Exchange and a rapid advance in the price of the shares were the result of large purchases made by Harris, Gates & Co., brokers, in which firm John W. Gates is a special partner. After nearly a week in which the Louisville & Nashville situation was a mystery to Wall street, Harris, Gates & Co. made the announcement: "We have bought

control of the Louisville & Nashville road, We did not buy it for speculation, but for investment, believing absorately in the present and future value of the property. There will not be any 'corner' in the stock. We have placed the entire matter in the hands of J. P. Morgan & Co., and requested them to act as arbiters in the situation, because of the prominence of the property, and desire not to disturb in any way the general market condition, and because we know that they (Morgan & Co.) have no interest whatever in the property or in recent purchases."

There were conferences at the office of J. P. Morgan & Co., at which were present George W. Perkins and William Pierson Hamilton, representing the Morgan interests; August Belmont, Samuel Spencer, president of the Southern Railway; Edwin Hawley, president of the Iowa Central and Minneapolis & St. Louis roads; John W. Gates, Talbot J. Taylor, head of the brokerage firm of that name, and son-in-law of James R. Keene, and Francis Lynde Stetson, one of Mr. Morgan's attorneys.

The announcement that John W. Gates had acquired control of the property was made immediately after the conferences. Mr. Perkins, for J. Pierpont Morgan & Co., gave out the following statement:

"At the request of Messrs, Harris, Gates & Co., who on their own independent account have recently made large pur chases of Louisville & Nashville Railroad stock, Messrs, J. P. Morgan & Co., as bankers, have consented to take control of the stock so purchased and to receive the same on deposit. They have so consented solely to relieve the general financial condition, and not for the benefit of any railway company. The Southern Railway has no interest, direct or indirect, present or prospective, in this stock or in its purchase or deposit. Messrs, J. P. Morgan & Co, are acting with the cordial ent of Messrs, August Belmont & Co.

After Mr. August Belmont had read the foregoing statement from Morgan & Co. he gave out the following typewritten statement:

"I have been aware of the negotiations by which J. P. Morgan & Co. have consented to take control and deposit of the stock of the Louisville & Nashville Railroad Co., purchased by Harris, Gates & Co. The statement of Messrs. J. P. Morgan & Co., just made public, has my unqualified approval, and there will be no contest for the control of the Louisville & Nashville Railroad Co."

President Spencer of the Southern Railway is quoted as saying:

"You can say positively that Louisville will not pass to the Southern Railway, nor will it be controlled by the Southern Railway."

Florida's Treasury Report.

State Comptroller A. C. Croom of Florida has made his first annual report to the governor. The report shows that the balance in the treasury to the account of the general revenue fund, January 1, 1901, was \$277,885, and although the appropriations for the year were \$156,808 more than the ordinary expenses, the balance in the treasury on December 31, 1901, was \$190,482. The assessed valuation of property is \$800,000 more than the previous year, and the comptroller estimates that the revenue from 1902 will be greater than before.

In explanation of the increased expenditures, the report refers to \$22,735 on account of the Jacksonville fire and appropriations for education of more than \$60,000 in excess of previous years. The comptroller further calls attention to the fact that 7 per cent. State bonds amounting to \$267,700 have been refunded at 3

per cent., and remarks that when the 6 per cent, bonds are refunded next January at 3 per cent. there will result a saving of more than \$30,000 annually in interest.

The comptroller has also recommended to the consideration of the governor that the three mills authorized for general revenue purposes by the legislature be by executive order reduced to two and a-half mills for the year 1902, and the governor has replied to this recommendation stating his decision to so reduce the tax rate.

Tennessee's Debt Reduction.

Governor McMillan of Tennessee has med a letter announcing a reduction of \$1,896,500 of the State's debt in a period of three years and three months. bonded debt of the State, including debts to charitable and educational institutions, is \$15,658,800, exclusive of some old bonds now in controversy with the government. The governor says that when he was inaugurated, January 16, 1899, the State had a floating debt of \$850,000. All the floating debt and interest thereon has been paid, amounting to \$883,707.85, the rate of interest being 31/2 per cent. eral other items made a total floating debt of \$910.465.24, all of which has been paid off. The State has purchased under the sinking-fund act \$905,100 of its own curities, and has in the sinking fund \$74,-000 cash to be used for the purchase of bonds. In conclusion the governor says:

"Much credit is due to the economic legislatures which have co-operated with me in this work, and to the State officials and county officials, through whom this money has been collected and paid promptly. All of this has been accomplished without borrowing a dollar, and the State has on hand and in sight enough money to pay the interest and expenses of this year without borrowing."

Prosperous Louisiana Banks.

The quarterly statement of the Bank of Napoleonville, La., shows capital \$30,000, surplus \$10,000, undivided profits of \$18,-910, individual deposits not bearing interest \$236,296.

The Bank of Assumption, La., reports \$25,000 capital, profits \$3938 and deposits \$137,121.

The Bank of Donaldsonville reports capital, surplus and undivided profits, less expenses and taxes, \$91,369, an increase of \$7070 over last year; deposits, \$239,384; total of business for the quarter \$414,079, an increase of \$96,000 as compared with a year ago.

The Bank of Ascension, also at Donaldsonville, reports net capital and surplus \$38,626, deposits \$123,333, and total of business for the quarter \$222,313.

The People's Bank of Donaldsonville reports total business for the quarter \$222,313, deposits \$123,333, net capital and surplus \$38,626.

Report on Mississippi Banks.

The comparative statement of the condition of the State banks of Mississippi issued by Auditor Cole shows them to be in a healthful condition. There have been twelve new banks established in a little more than a year.

The statement shows total capital, \$5,193,311—increase since January 1, 1901, \$517,060; surplus, \$877,249—increase, \$220,113; undivided profits, \$871,444—increase, \$127,345; individual deposits subject to check, \$17,303,773—increase, \$1,159,114; time deposits, \$1,005,878—increase, \$127,245; loans and discounts, \$14,456,545—increase, \$2,818,932.

Oklahoma Banks.

fact that 7 per cent, State bonds amounting to \$267,700 have been refunded at 3 torial bank commissioner, Paul F. Cooper,

the condition of the banks of Oklahoma Territory, 150 banks reporting, showed at the close of business March 12 an increase of deposits of \$636,190 since the call of September 30 last. The total deposits are \$7,738,747, and the total resources \$9,456,099. The average reserve held is 54.1 per cent., and the percentage of undivided profits and surplus to capital is 33.8.

New Corporations.

The Farmers' Bank of Dearborn, Mo., has increased its capital from \$10,000 to \$15,000.

H. H. Woolridge and others are reported to be organizing a new bank at Woolridge, Mo.

A movement is under way, it is reported, to organize a bank with \$10,000 capital at Salvisa, Ky.

At Petersburg, Ky., is is reported that

At Petersburg, Ky., is is reported that Charles W. Jenkins will organize a bank, with Solon Early as cashier.

The Emerson State Bank of Emerson, Okla., has been incorporated by H. S. Emerson and others; capital \$10,000.

Frank Gaskins and others are endeav oring to organize a bank at Fairmont, W Va. The capital proposed is \$25,000.

The Ewing Deposit Bank has been incorporated at Ewing, Ky.; capital \$15,000. T. H. Talbot is one of the incorporators. It is reported from La Follette, Tenn.,

It is reported from La Follette, Tenn., that John E. Searles and others have organized a new bank, with \$25,000 capital.

The Davidson County Mutual Fire Insurance Co, has been incorporated at Lexington, N. C., by W. C. Leonard and others.

The First National Bank of Burlington Junction, Mo., has been approved by the comptroller of the currency; capital \$25,000.

The Columbia Insurance & Casualty Co. has been chartered at Columbia, S. C., with \$25,000 capital. A. M. Meetze is president.

Local capitalists of Natchez, Miss., have, it is reported, agreed to organize a trust and banking company, with \$100,-000 capital.

The Bank of Walters at Walters, Okla., has been chartered, with \$5000 capital, George W. Graham and others being the incorporators,

The Bank of Glendeane, Ky., has been organized, with \$15,000 capital. D. C. Moorman is president, and Arthur E. Smith, cashier.

The Bank of Adams, Robertson county, Tennessee, has been chartered, with \$20, 000 capital. J. E. Winters and others are the incorporators.

The People's Bank has been organized at Jonestown, Miss., with Dr. W. C. Weathersby of Clarksdale as president; capital stock \$10,000.

At Dublin, Ga., efforts are being made, it is understood, by F. G. Corker and J. E. Smith, Jr., to organize a national bank, with \$50,000 capital.

The Kingfisher Investment Co. of Kingfisher, Okla., has been chartered, with \$50,000 capital. E. J. Kelly and others are the incorporators.

The People's Bank of Harrison, Ark., has been incorporated, with John A. Bunch, president; J. O. Mitchell, secretary and treasurer; capital \$25,000.

A bank with \$30,000 capital has been organized at Foreman, Ark. George T. Lemons of New Boston, Texas, is president, and Carl Schuman is cashier.

The First National Bank of Lubbock, Texas, has been authorized to begin business with \$40,000 capital. R. M. Clayton is president, and I. L. Hunt, cashier.

The First National Bank of San Augustine, Texas, has been organized, with \$25,000 capital. James C. Anderson is president, and T. B. Sanders, cashier.

TABLE OF CONTENTS

	TABLE OF CONTENTS.	
	EDITORIAL: I	age
	For Practical Education	. 21
	The Appalachian Reserve	
	Texas Given a Send-Off	. 21
	The Losses in Strikes	. 21
	Cane and Cassava	
	Census Office on the Present Cotton Crop The Pig-Iron Market	
	Unchanged at Birmingham	. 215
	Maryland's Coal Beds Corsicana Oil Notes	
	The Beaumont Oil Field	. 219
	Japanese Studying Oil	
	Notes from Huntsville Mr. Search's Farewell	
1	Texas' State Buildings	. 226
I	In the Cotton Palace	
-	For a Southern Tour	200
ĺ	Hardware Jobbing Combine	222
	FOREIGN TRADE:	
	America and the Levant	299
l	Swiss Using American Looms Chances in Belgium	
l	RAILROADS:	
l	Choctaw System Sold New Line in Arkansas	200
l	Atlanta's Union-Depot Plan	223
1	Wadesboro to Winston A Virginia Project	223
١	Norfolk to Cape Henry	223
	Tallulah Falls Extension	
	A New Electric Line	223
	Railroad Notes TEXTILES:	202
	A Suggested Combine	224
	Complete Cotton Plant at Pell City Coosa Mfg. Co.'s Additional Mill	224
	To Establish Finishing Plants	224
	To Add \$62,500 Weaving Mill	
	A \$35,000 Knitting Mill	224
	Textile NotesQuotations of Cotton Yarns	224
	COTTONSEED OIL:	
l	Cottonseed-Oll Notes	
	Possibilities of Mobile To Irrigate Rice Lands	225
	PHOSPHATES.	
	Phosphate Markets	225
	Marble in Tennessee	225
	MECHANICAL: Mechanical Draft (Illus.)	226
	Improved Buffalo High-Speed Steel-	
	Plate Exhaust Fan (Illus.)	
	(Illustrated)	227
	Multiple-Spindle Drilling Machines (Ill.) Bowen's Oil Cups	
	Jas. A. Trane's Gravity System of	228
	Heating	
	Lumber Market Reviews:	228
	Norfolk	
	Savannah	228
	MobileBeaumont	229
	Lumber Motes	
	CONSTRUCTION DEPARTMENT:	
	New Enterprises	230
	Building Notes	232
	Machinery Wanted	233
	Trade Notes	234
	FINANCIAL NEWS:	
	Review of the Baltimore Market Securities at Baltimore	235
	Southern Cotton Mill Stocks	235
	Louisville & Nashville Florida's Treasury Report	236
	Tennessee's Debt Reduction	236
	Prosperous Louisiana Banks	236 236
	Oklahoma Banks	236
	New Corporations New Securities	32
,	Financial Notes	22

The Mecklenburg Farmers' Mutual Fire Insurance Co, of Charlotte, N. C., has been incorporated by H. D. Stone, J. H. McClintock, W. P. Carver and others.

The Consolidated Credit Co. of North Carolina has begun business at Charlotte, N. C., with W. R. Summerson as president, and E. P. Summerson, treasurer.

[For Additional Financial News, See Pages 32 and 33.]

- 223 - 223 - 223 - 223 - 223 - 223 - 223 - 223 - 224

.... 226
teel.... 227
tolls
.... 227
(111.) 228
.... 228
of
.... 228

ual Fire
C., has
e, J. H.
thers.
of North
harlotte,